TC-K661S

SERVICE MANUAL

AEP Model
UK Model

Dolby noise reduction manufactured under license form Dolby Laboratories licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trade, marks of Dolby Laboratories Licensing corporation.

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	TCM-200V21

SPECIFICATIONS

Recording system	4-track 2-channel stereo
Fast winding time	Approx. 90sec. (with Sony C-60 cassette)
Bias	AC bias
Heads	Erasing head × 1 (F&F head) Recording head × 1 (SD head) Playback head × 1 (SD head)
Motors	Capstan motor × 1 (DC servo motor) Reel motor × 1 (DC motor) Assist (mechanism drive) motor × 1 (DC motor)

Signal-to-noise ratio (at peak level and weighted)

Cassette (Dolby NR off)	Type Ⅳ	Type Ⅱ	Type Ⅰ
	61dB	59dB	57dB

S/N ratio improvement (approximate values)
With Dolby B NR on : 5 dB at 1kHz ; 10 dB at 5 kHz
With Dolby C NR on : 15 dB at 500 Hz ; 20 dB at 1 kHz
With Dolby S NR on : 10 dB at 100 Hz ; 24 dB at 1 kHz

Harmonic distortion 0.4% (with Type Ⅰ , 160 nWb/m, 315 Hz, 3rd H.D.)
1.5% (with Type Ⅳ , 250 nWb/m, 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Type Ⅳ Cassette	20-20,000Hz (± 3 dB, IEC) 20-16,000Hz [± 3 dB (− 4 dB recording)]
Type Ⅱ Cassette	20-18,000Hz (± 3 dB, IEC)
Type Ⅰ Cassette	20-17,000Hz (± 3 dB, IEC)

Type Ⅳ : Sony Type Ⅳ (METAL)
Type Ⅱ : Sony Type Ⅱ (HIGH)
Type Ⅰ : Sony Type Ⅰ (NORMAL)

Wow and filuter ± 0.065% W.Peak (IEC)
0.045% W. RMS (NAB)
± 0.12% W.Peak (DIN)

Inputs

Line inputs (phono jacks)	Sensitivity	0.16 V
	Input impedance	47 k ohms

Output

Line outputs (phono jacks)	Rated output level	0.5V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0-3mW at a load impedance of 32 ohms

– Connecting on page 2 –

STEREO CASSETTE DECK

SONY®

General

Power requirements	AEP, German model : 220 - 230V AC, 50Hz UK model : 240V AC, 50Hz
Power consumption	21W
Dimensions	Approx. 430×123×310mm including projecting parts and controls
Mass	Approx. 4.4kg

Supplied accessories
Audio connecting cords (2)

Design and specifications are subject to change without notice.

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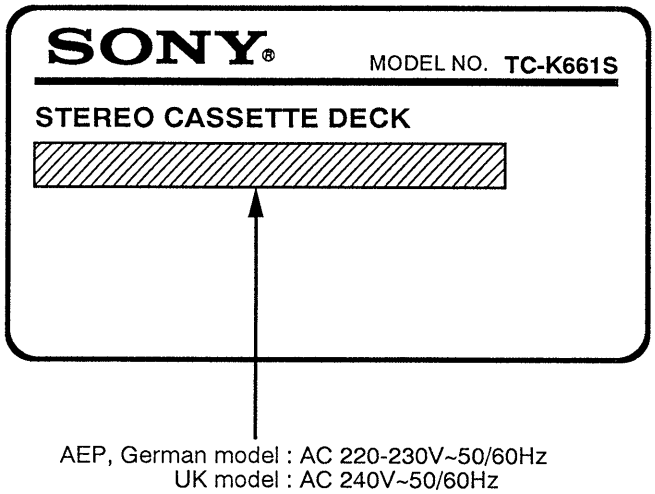
MODEL IDENTIFICATION
(Specification Label)



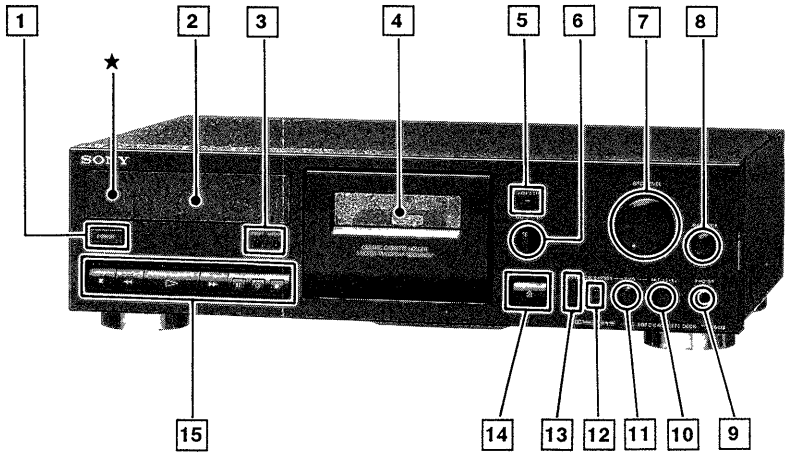
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

LOCATION AND FUNCTION OF CONTROLS



1 POWER switch

2 Display panel

3 COUNTER buttons
RESET button
MEMORY button

4 Cassette holder

5 MPX FILTER button

6 DOLBY NR (noise reduction) switch

7 REC (recording) LEVEL control

8 BALANCE control

9 PHONES Jack (stereo phone jack)

10 REC (recording) LEVEL control for calibration

11 BIAS control

12 CALIBRATION button

13 MONITOR button

14 ⏏ (EJECT) button

15 Tape operation buttons
- ■ (Stop) button
- ◀◀ (rewind) (Multi-AMS**) button
- ▷ (play) button
- ▶▶ (fast-forward) (Multi-AMS**) button
- ▯▯ PAUSE button
- ○ REC MUTE (record muting) button
- ● REC (recording) button

* Remote control sensor
You can remotely control this cassette deck with :
- A remote commander that came with a Sony amplifier or receiver if it has the IR mark and cassette deck control capability.
- An optional Sony remote commander with the IR mark and cassette deck control capability.

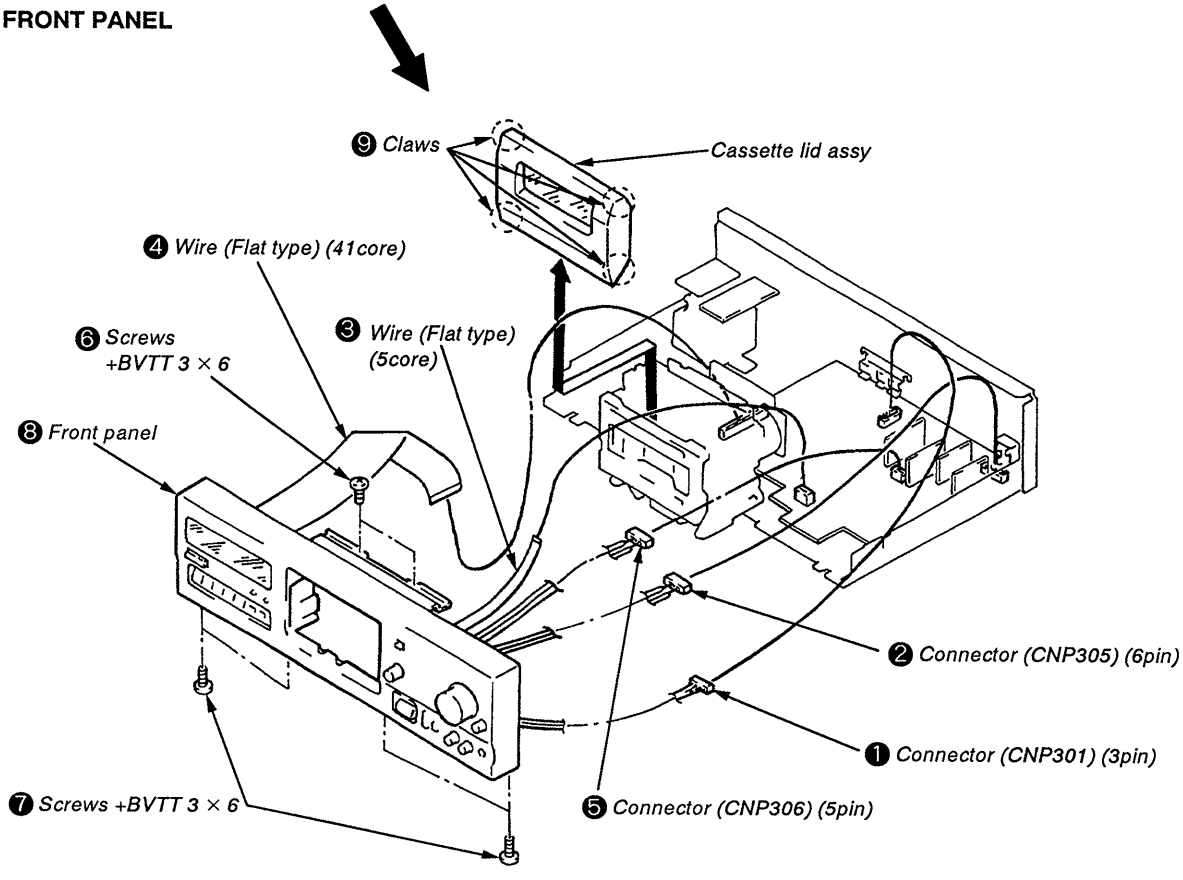
** AMS is an abbreviation for Automatic Music Sensor.

SECTION 2
DISASSEMBLY

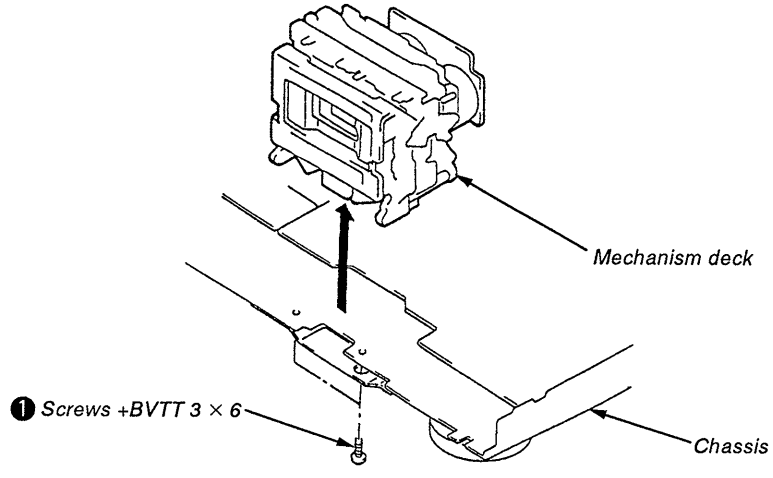
Note : Follow the disassembly procedure in the numerical order given.

CASE
Unscrew the four case attachment screws M3 × 8 and remove the case.

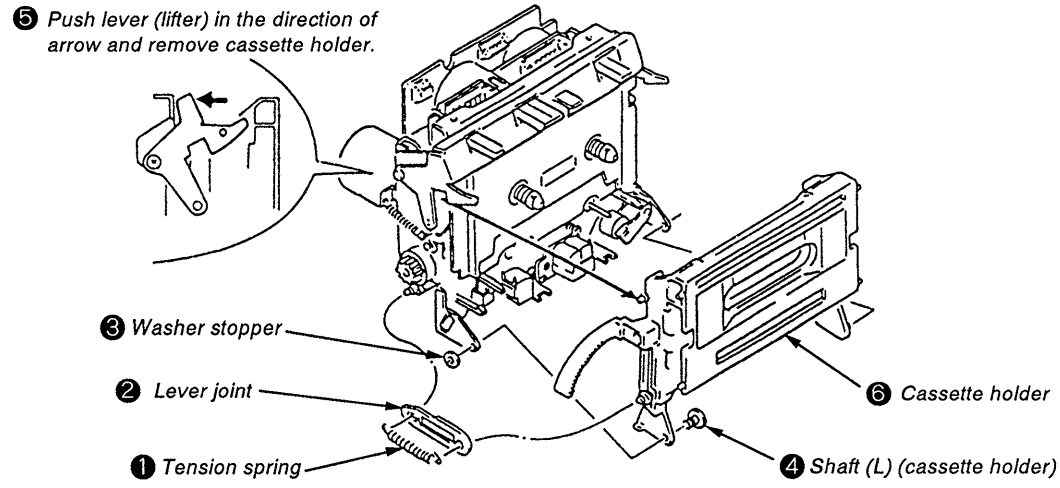
2-1. FRONT PANEL


❾ Claws
Cassette lid assy
❹ Wire (Flat type) (41core)
❻ Screws +BVTT 3 × 6
❸ Wire (Flat type) (5core)
❽ Front panel
❷ Connector (CNP305) (6pin)
❶ Connector (CNP301) (3pin)
❼ Screws +BVTT 3 × 6
❺ Connector (CNP306) (5pin)

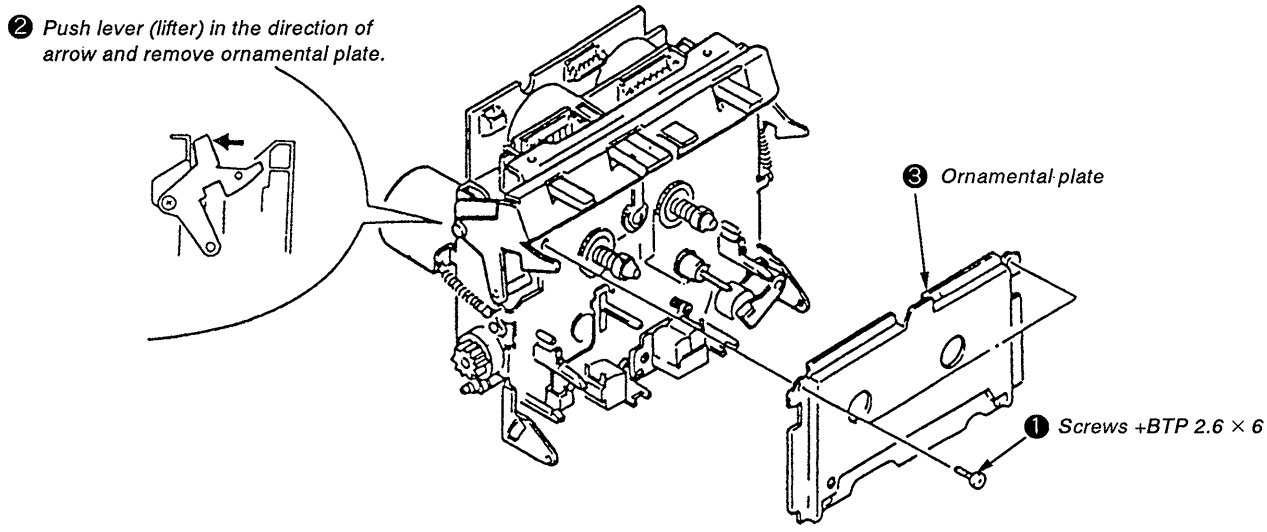
2-2. MECHANISM DECK



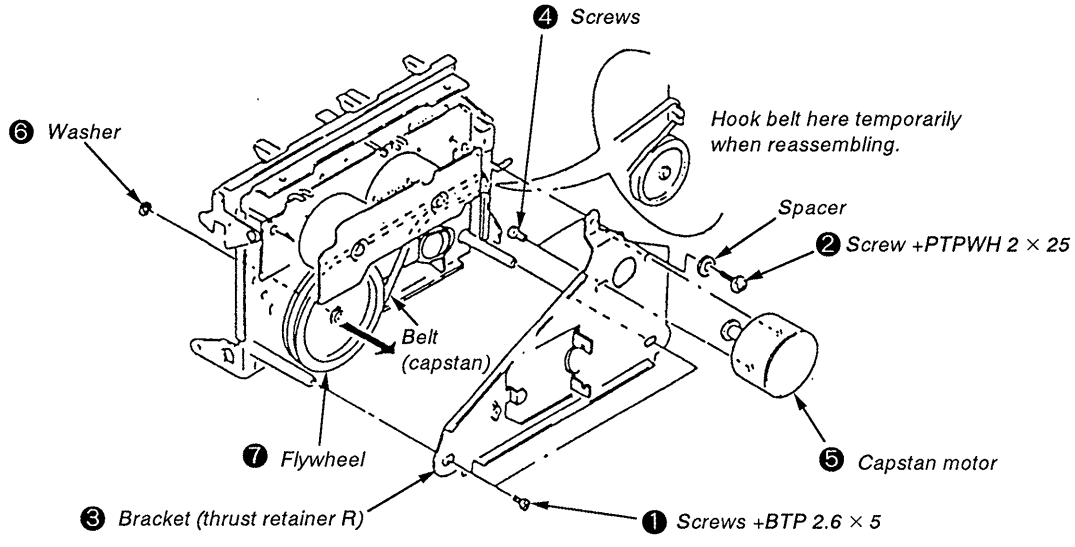
2-3. CASSETTE HOLDER


❺ Push lever (lifter) in the direction of arrow and remove cassette holder.
❸ Washer stopper
❷ Lever joint
❶ Tension spring
❻ Cassette holder
❹ Shaft (L) (cassette holder)

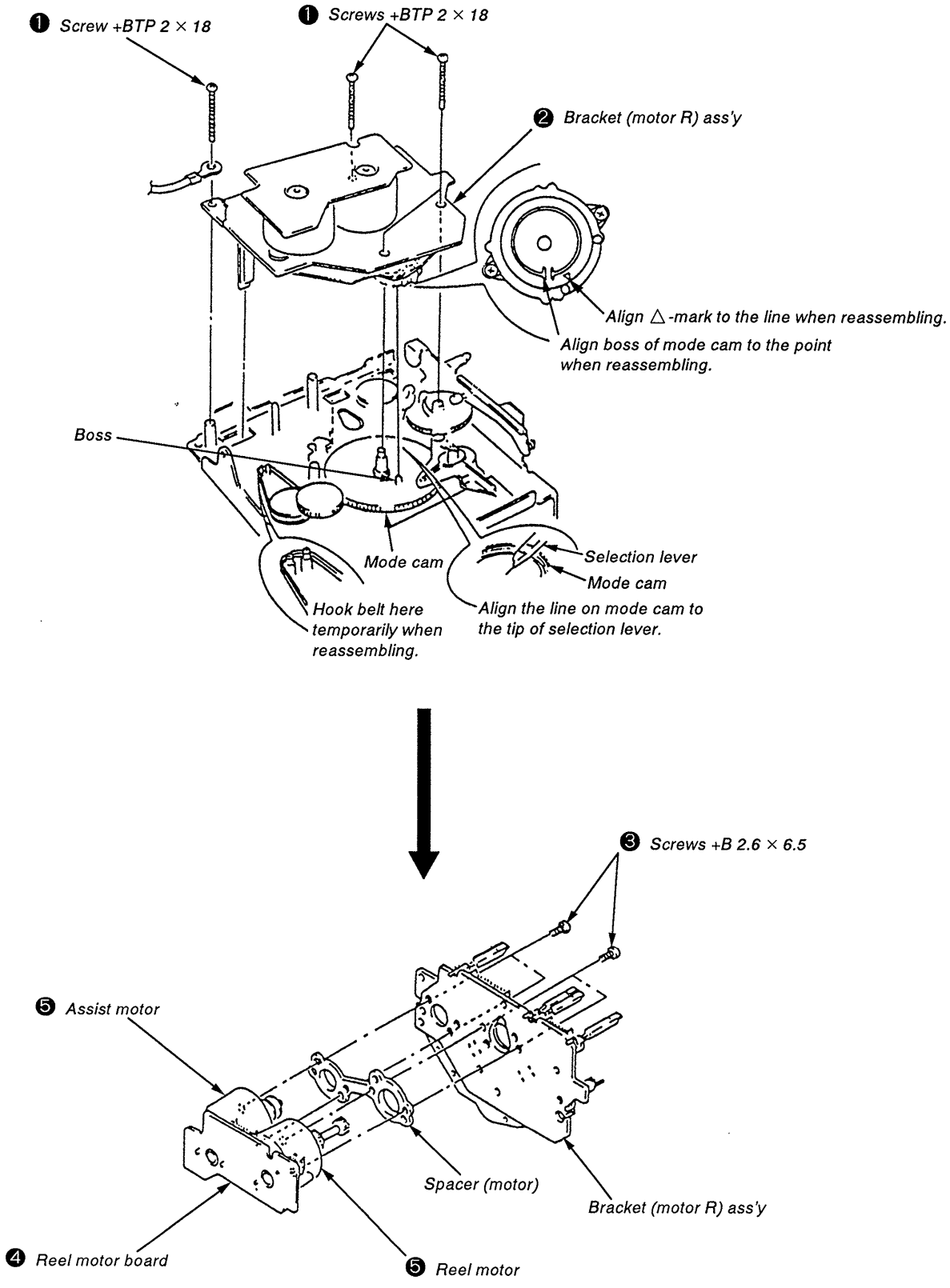
2-4. ORNAMENTAL PLATE



2-5. CAPSTAN MOTOR/FLYWHEEL



2-6. REEL AND ASSIST MOTORS


❶ Screw +BTP 2 × 18
❶ Screws +BTP 2 × 18
❷ Bracket (motor R) ass'y
Align △-mark to the line when reassembling.
Align boss of mode cam to the point when reassembling.
Boss
Mode cam
Selection lever
Mode cam
Hook belt here temporarily when reassembling.
Align the line on mode cam to the tip of selection lever.
❸ Screws +B 2.6 × 6.5
❺ Assist motor
Spacer (motor)
Bracket (motor R) ass'y
❹ Reel motor board
❺ Reel motor

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback/erase head — pinch roller
   rubber belts — capstan
   idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

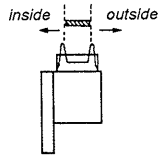
Torque Measurement

Mode	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g•cm (0.42 to 0.90oz•inch)
Forward back tension	CQ-102C	1 to 6g•cm (0.014 to 0.08 oz•inch)
FF/REW	CQ-201B	70 to 120g•cm (0.98 to 1.66 oz•inch)

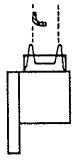
Record/Playback Head Height/Declination Adjustment

Procedures :

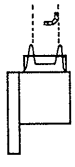
1. Test cassette : CQ-009C
2. Insert the mirror cassette and put the unit in record/Playback mode.
   1) Height Adjustment :
      Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws Ⓐ , Ⓑ and Ⓒ , respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally ; but loosen them if the tape begins to curl on the top side (outer side).



Normal (Record/playback head as seen from the side of the erasehead.)



Curling on the inner side Tighten screws Ⓐ, Ⓑ and Ⓒ.

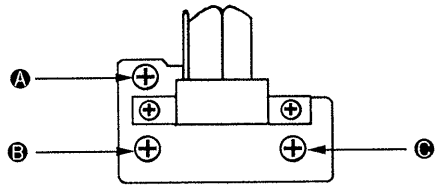


Curling on the outer side Loosen screws Ⓐ, Ⓑ and Ⓒ.

   2) Declination Adjustment :
      While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.
      Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.
      When there is a shift, tighten screws Ⓑ and Ⓒ equally and and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.

      Repeat the adjustments in steps 1) to 2) and fine adjust the height and the declination.

Adjustment Location : – record/playback head –

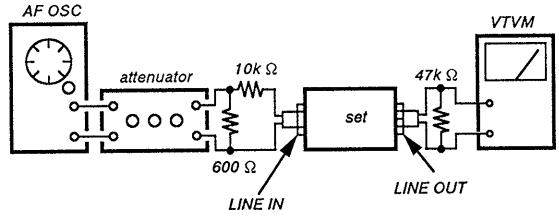


3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication.
   (Be sure to male playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
   - Switch position
     DOLBY NR switch : OFF
     MPX FILTER switch : OFF
     MONITOR switch : TAPE
     CALIBRATION switch : OFF
     BIAS control : CENTER CLICK
   - Standard record position:
     Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

– Record Mode –



Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (− 3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (− 3.8dB)

Test Tape

Tape	Contents	Use
P-4-A100	10kHz, − 10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB=0.775V

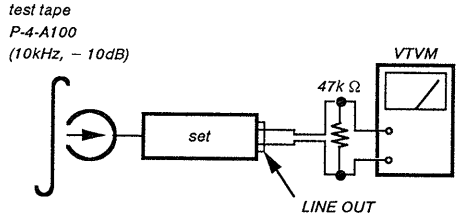
Test Mode

1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch. (Earth pin ⑲ of IC801 and turn ON the power switch.)
   At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0000" is not displayed on the counter.)
2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

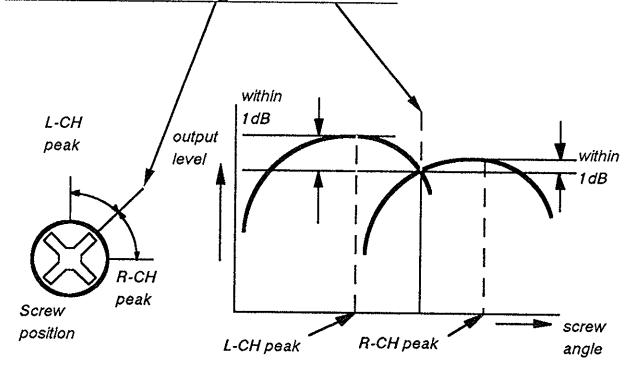
Record/Playback Head Azimuth Adjustment

Procedure :

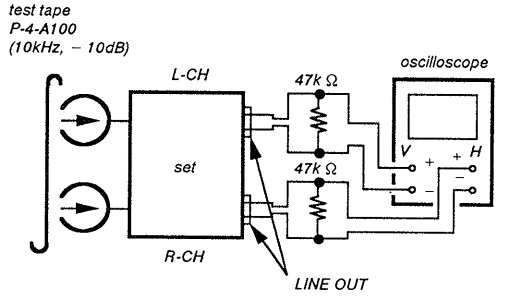
1. Playback Mode

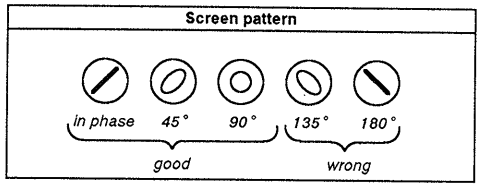


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



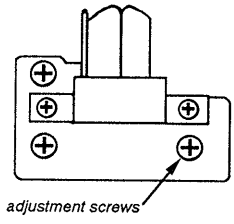
3. Phase check
   Playback Mode





4. After the adjustment, lock the adjustment screws with suitable locking compound.

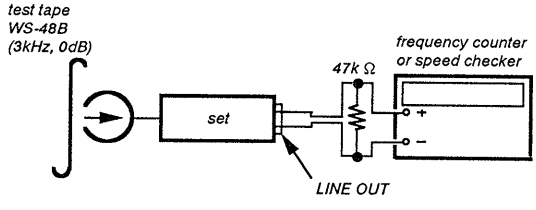
Adjustment Location : − record/playback head −



Tape Speed Adjustment

Procedure :

− Playback Mode −

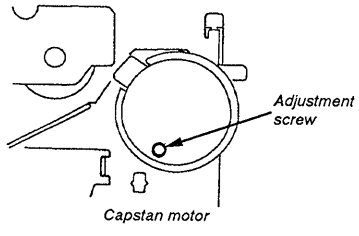


Adjustment Value :

Speed checker	Digital frequency counter
± 0.5%	2,985 − 3,015 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

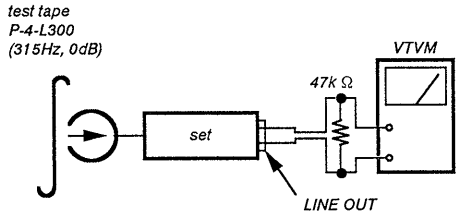
Adjustment Location :



Playback Level Adjustment

Procedure :

– Forward Playback Mode –



Adjust RV121 (L-CH) and RV221 (R-CH) so the VTVM reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : – 7.7 ± 0.5dB (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times

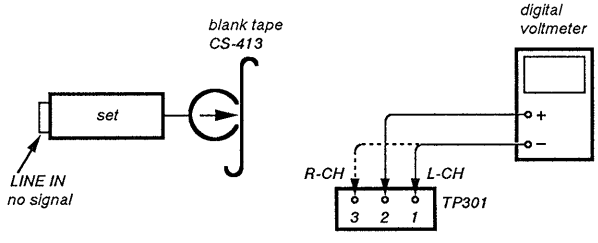
Adjustment Location : MAIN board (Page 10)

Bias Consumption Current Adjustment

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T101, T201).

Procedure :

( ) : R-CH



1. Connect the digital voltmeter to test point TP301.
2. Set RV103 (RV203) to mechanical center.
3. Set to FWD record mode.
4. Adjust T101 (T201) so that the digital voltmeter reading becomes minimum.

Adjustment Value : 220mV or less

Adjustment Location : MAIN board (Page 10)

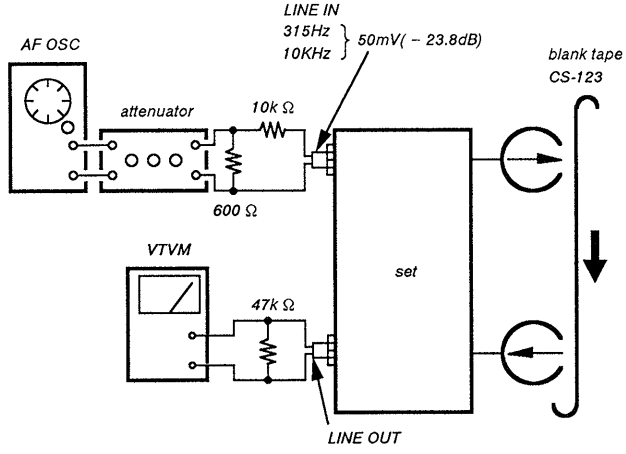
Record Bias Adjustment

Setting :

REC LEVEL control : Standard Record

Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV103 (L-CH) and RV203 (R-CH) so that the 10 kHz playback output is 0 ± 0.3 dB relative to the 315Hz output.

Adjustment Location : MAIN board (Page 10)

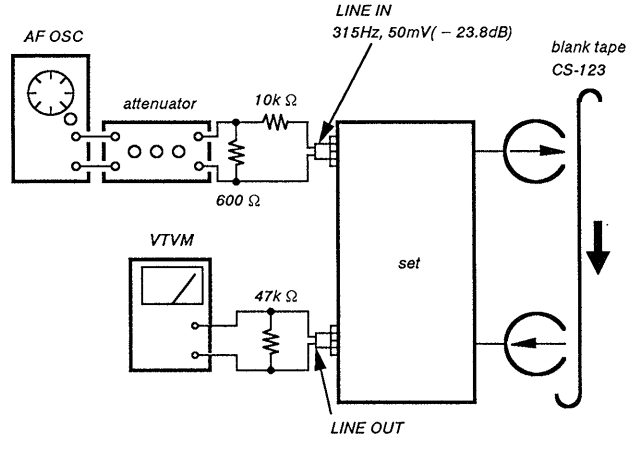
Record Level Adjustment

Setting :

REC LEVEL control : Standard Record

Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV101 (L-CH), RV201 (R-CH) .

Adjustment Value : – 23.8 ± 0.5dB (47.2 to 53mV)

Adjustment Location : MAIN board (Page 10)

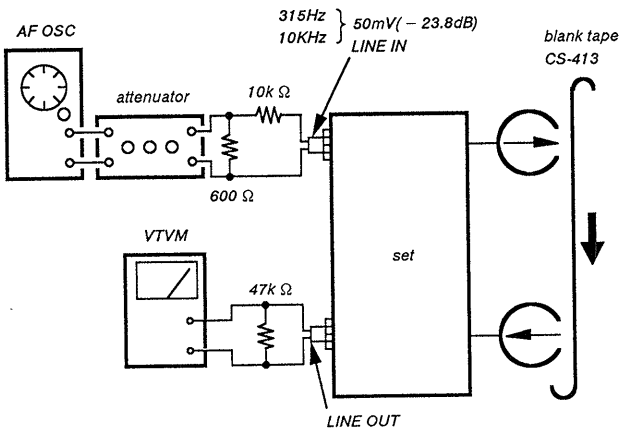
Record EQ (IV) Adjustment

Setting :

REC LEVEL control : Standard Record

Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV102 and 202 so that they become maximum.
3. Adjust RV102 (L-CH) and 202 (R-CH) so that the difference between R-CH and L-CH at 10 kHz is within 1dB.
4. Adjust RV306 so that the R-CH meet the specification.

Adjustment Value :

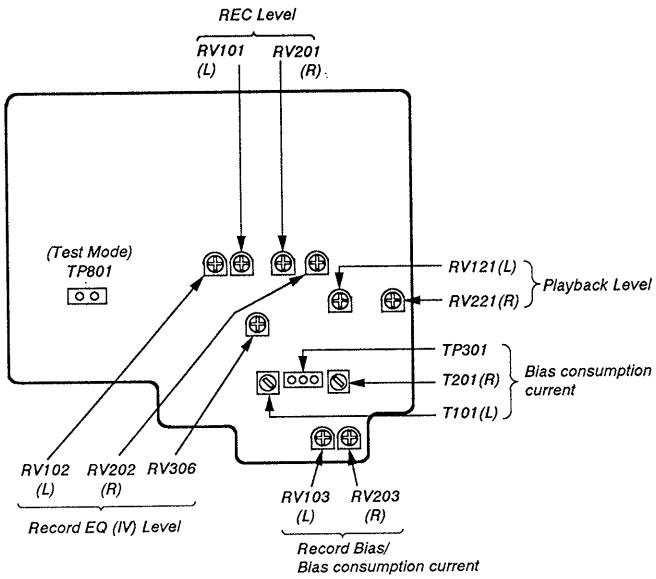
10kHz level difference against 315Hz reference.

0 ± 1.0dB

Adjustment Location : MAIN board

[MAIN BOARD]

(Component Side)



SECTION 4
EXPLANATION OF IC TERMINALS

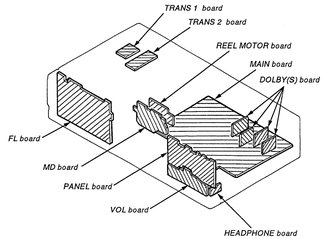
IC801 μPD78042GF-050-3B9

Pin No.	Pin name	I/O	Description
1	Ⅳ	O	BIAS EQ Ⅳ control.
2	P25	O	VFD Segment drive.
3	G5-MODE	O	VFD colum mode.
4	G4-SEC	O	VFD colum Sec.
5	G3-MIN	O	VFD colum Min.
6	G2-RCH	O	VFD colum R-CH.
7	G1-LCH	O	VFD colum L-CH.
8	V_{DD}	–	Power supply. (+5V)
9	MO.UP	O	Asist motor control. UP : "L"
10	MO.DOWN	O	Asist motor control. DOWN : "L"
11	MO.REV	O	Reel motor REV control. Reset : "H" REV : "L"
12	MO.FWD	O	Reel motor FWD control. Reset : "H"
13	TYPE • Ⅳ	I	Type Ⅳ SW input terminal.
14	HALF-SW	I	Half pawl input terminal.
15	TYPE • Ⅱ	I	Type Ⅱ SW input terminal.
16	TOME SW	I	Erase proof switch input terminal.
17	RESET	I	System reset terminal.
18	3.0V	O	Motor V fast.
19	4.5V	O	Motor V play.
20	AV_{SS}	–	Analog for power supply. (GND)
21	KEY1	I	Key input terminal.
22	KEY2	I	Key input terminal.
23	T • PULSE	I	Take up pulse input terminal.
24	S • PULSE	I	Supply pulse input terminal.
25	TEST	I	Test mode terminal. "H" : Normal, "L" : Test mode
26	DOLBY SW	I	Dolby SW input terminal.
27	METER-L	I	Meter level L-CH input terminal.
28	METER-R	I	Meter level R-CH input terminal.
29	AV_{DD}	–	Analog for power supply. (+5V)
30	AVref	–	A/D referance voltage. (+5V)
31	AMS-SIG	I	AMS signal input terminal.
32	XT2	–	Not used. (OPEN)
33	V_{SS}	–	Power supply. (GND)
34	XI	I	System clock input terminal.
35	XO	O	System clock output terminal.
36	PATO	I	Encoder control
37	PAT1	I	Encoder control
38	PAT2	I	Encoder control
39	PAT3	I	Encoder control
40	OPEN	I	Open switch input terminal. Open : "L"

Pin No.	Pin name	I/O	Description
41	CLS SW	I	Close switch input termimal. Close : "L"
42	DOR SW	I	Door switch input termimal. Open : "H"
43	C.M	O	Capstan motor ON/OFF control. ON=0V
44	NC	–	Not used. (OPEN)
45	POWER OUT	O	Power ON/OFF control.
46	POWER IN	I	Power OFF. OFF=0V
47	SIRCS	I	SIRCS signal input terminal.
48	IC	–	Not used. (GND)
49	CAL 1 ON/$\overline{OFF}$	O	Calibration ON/OFF control terminal.
50	CAL 2 H/$\overline{L}$	O	Calibration H/L control terminal.
51	BIAS	O	BIAS ON/OFF control.
52	V_{DD}	–	Power supply. (+5V)
53	MONITER	O	Audio mode select terminal.
54	REC-MUT	O	REC out mute control.
55	LINE-MUT	O	Line mute ON/OFF control terminal.
56	DOLBY CON.	O	Dolby ON/OFF control terminal.
57	SEG B	O	VFD segment drive. (Dolby B)
58	SEG C	O	VFD segment drive. (Dolby C)
59	SEG FIL	O	VFD segment drive. (Filter)
60	SEG S	O	VFD segment drive. (Dolby S)
61	P1	O	VFD segment drive.
62	P2	O	
63	P6	O	
64	P7	O	
65	P3	O	
66	P5	O	
67	P4	O	
68	P8	O	
69	P16	O	
70	P9	O	
71	– 21V	–	VFD power supply. (– 21V)
72	P10	O	VFD segment drive.
73	P14	O	
74	P15	O	
75	P11	O	
76	P13	O	
77	P12	O	
78	RECCAL	O	VFD segment drive. (REC CAL)
79	I	O	BIAS EQ Ⅰ control.
80	Ⅱ	O	BIAS EQ Ⅱ control.

SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



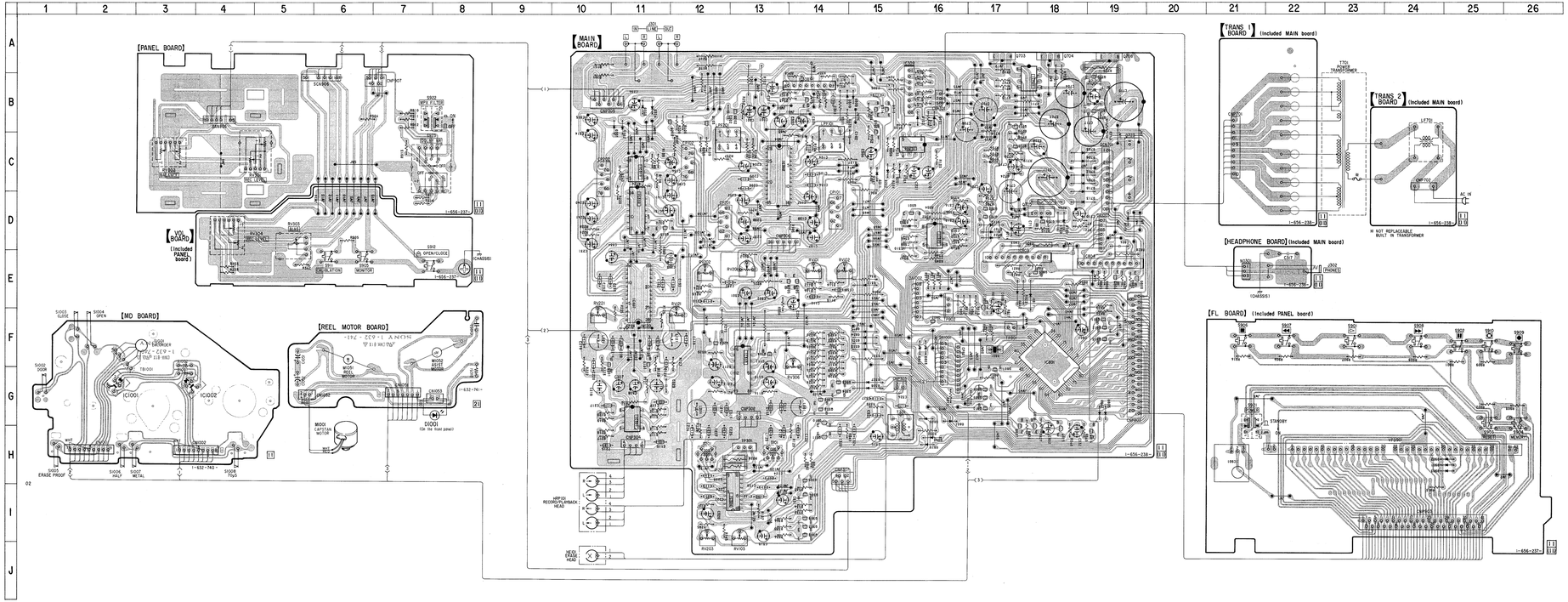
• SEMICONDUCTOR LOCATION

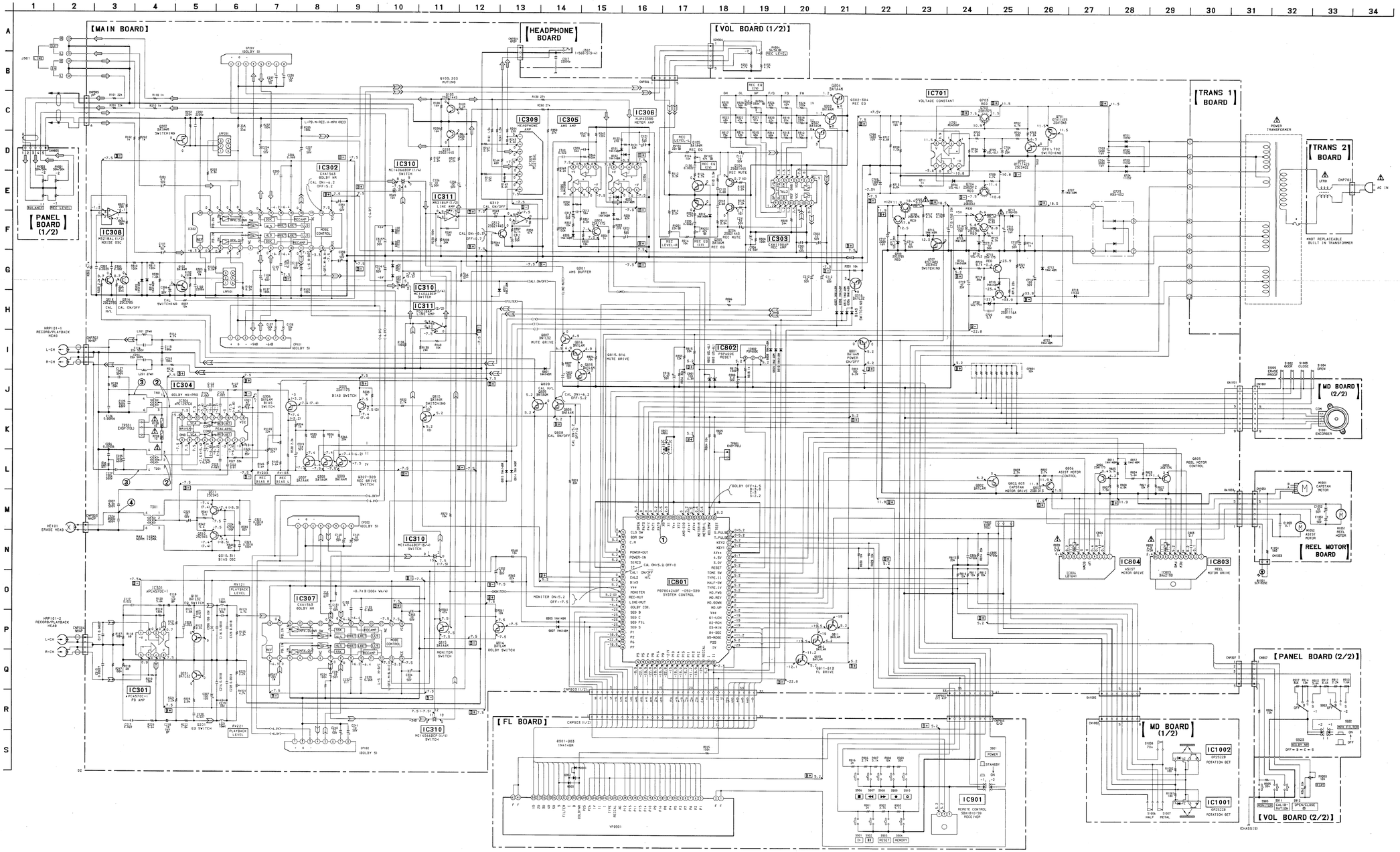
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	B - 16	D812	E - 17	Q306	I - 14
D102	B - 16	D814	F - 15	Q307	I - 14
D201	C - 15	D815	F - 15	Q308	I - 14
D202	C - 15	D901	H - 25	Q309	I - 14
D301	B - 11	D902	H - 25	Q310	G - 14
D302	B - 11	D903	H - 25	Q311	H - 14
D303	B - 11	D1001	G - 8	Q312	B - 14
D304	B - 11			Q313	B - 15
D305	D - 15			Q314	B - 15
D306	F - 15	IC301	G - 11	Q315	D - 11
		IC302	C - 13		
D307	G - 15	IC303	F - 13	Q316	G - 14
D308	G - 15	IC304	I - 13	Q701	D - 17
D309	B - 15	IC305	D - 16	Q702	D - 17
D310	B - 14			Q703	A - 17
D311	C - 15	IC306	C - 15	Q704	A - 18
		IC307	E - 11		
D312	E - 15	IC308	B - 14	Q705	D - 18
D313	F - 15	IC309	B - 16	Q706	D - 18
D701	C - 18	IC310	D - 11	Q707	B - 19
D702	C - 18			Q708	A - 19
D703	C - 18	IC311	C - 11	Q709	B - 19
		IC701	B - 18		
D704	C - 18	IC801	F - 18	Q710	C - 17
D705	C - 17	IC802	E - 17	Q711	B - 17
D706	B - 18	IC803	E - 17	Q801	G - 17
D707	D - 17			Q802	F - 16
D712	D - 17	IC804	E - 19	Q803	E - 19
		IC901	H - 21		
D713	D - 18	IC1001	G - 2	Q805	E - 18
D714	D - 17	IC1002	G - 3	Q806	E - 19
D715	D - 19			Q807	H - 17
D716	B - 19			Q808	G - 17
D717	B - 19	Q101	F - 11	Q809	G - 17
		Q102	B - 15		
D718	D - 18	Q103	B - 12	Q810	G - 17
D719	C - 17	Q104	F - 13	Q811	F - 19
D720	D - 18	Q105	E - 14	Q812	F - 19
D722	D - 17			Q813	F - 19
D723	C - 19	Q201	F - 10	Q814	H - 19
		Q202	B - 13		
D724	C - 17	Q203	B - 12	Q815	H - 18
D801	G - 16	Q204	F - 12	Q816	H - 18
D802	F - 16	Q205	E - 13		
D803	F - 16				
D805	G - 19	Q301	D - 16		
		Q302	G - 14		
D807	G - 19	Q303	G - 14		
D808	H - 16	Q304	G - 14		
D809	G - 16	Q305	H - 14		
D810	H - 16				
D811	E - 18				

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

5-2. PRINTED WIRING BOARDS (MAIN SECTION)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
A B C D E F G H I J
[PANEL BOARD]
[VOL BOARD] (included PANEL board)
[MD BOARD]
[REEL MOTOR BOARD]
[MAIN BOARD]
[TRANS 1 BOARD] (included MAIN board)
[TRANS 2 BOARD] (included MAIN board)
[HEADPHONE BOARD] (included MAIN board)
[FL BOARD] (included PANEL board)
* NOT REPLACEABLE BUILT IN TRANSFORMER



Note :

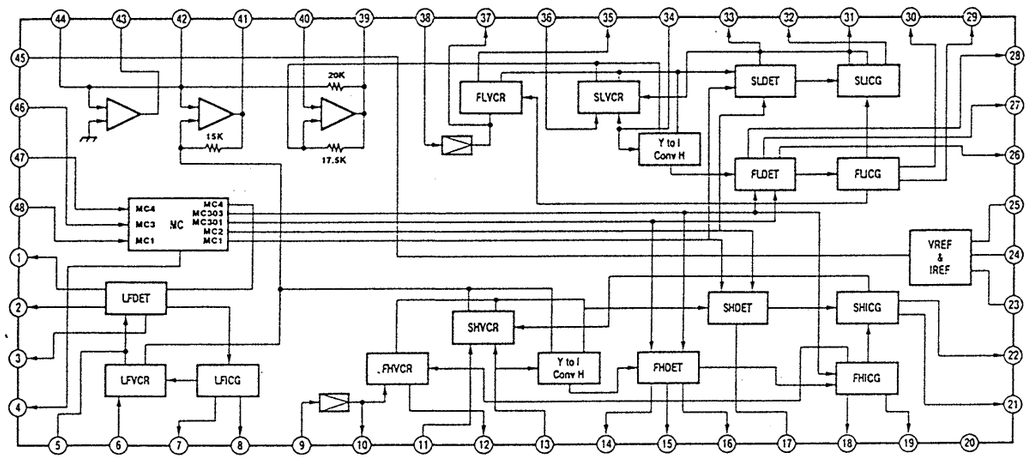
- All capacitors are in µ F unless otherwise noted. pF: µ µ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.

Note : The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

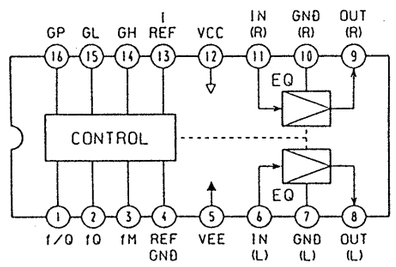
- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : stop
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : LINE
  ⇨ : PB
  ⇨ : REC

• IC BLOCK DIAGRAM

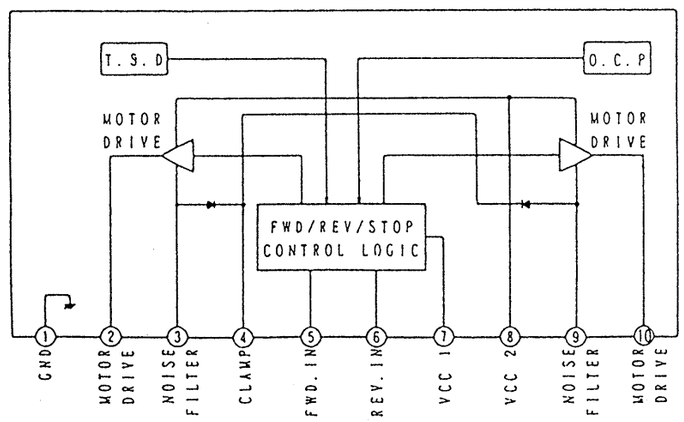
IC1 CXA1417Q



IC303 CXA1198AP

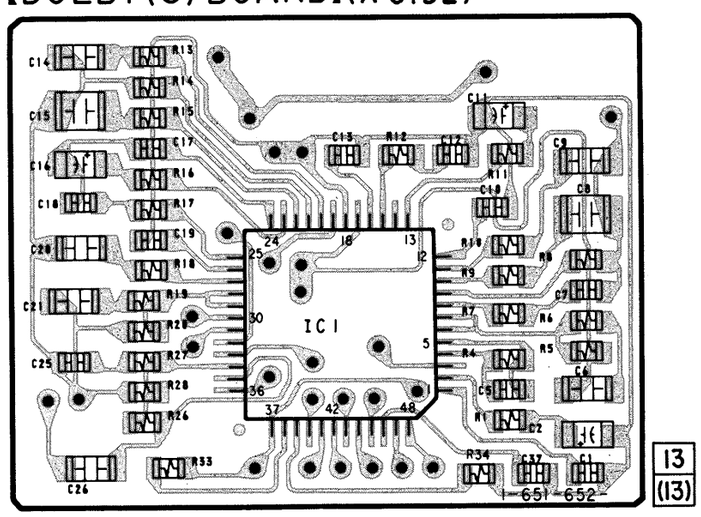


IC803 BA6219B
IC804 LB1641

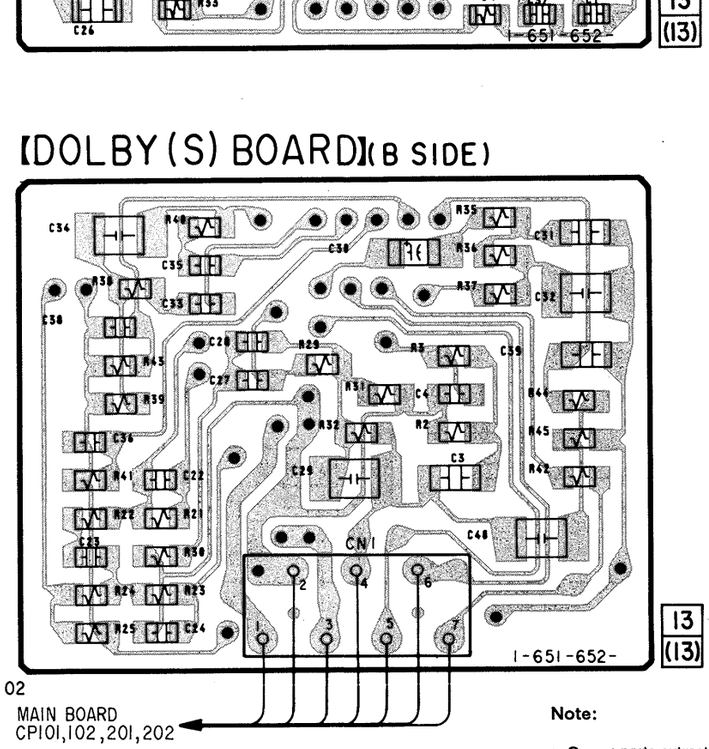


5-4. PRINTED WIRING BOARDS (DOLBY (S) BOARD)

【DOLBY(S) BOARD】(A SIDE)



【DOLBY(S) BOARD】(B SIDE)



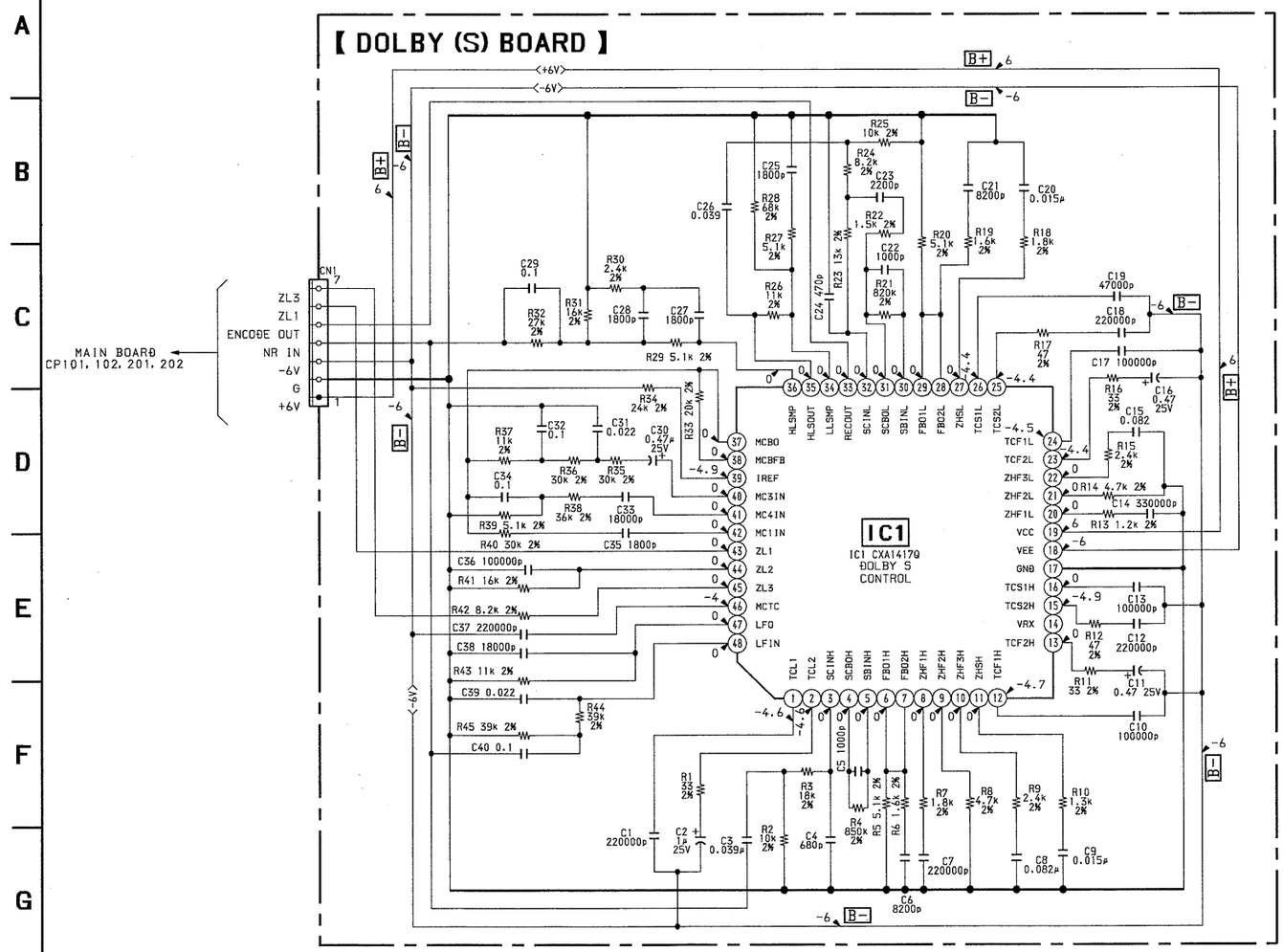
Note:

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

5-5. SCHEMATIC DIAGRAM (DOLBY (S) BOARD)



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

SECTION 6
EXPLODED VIEWS

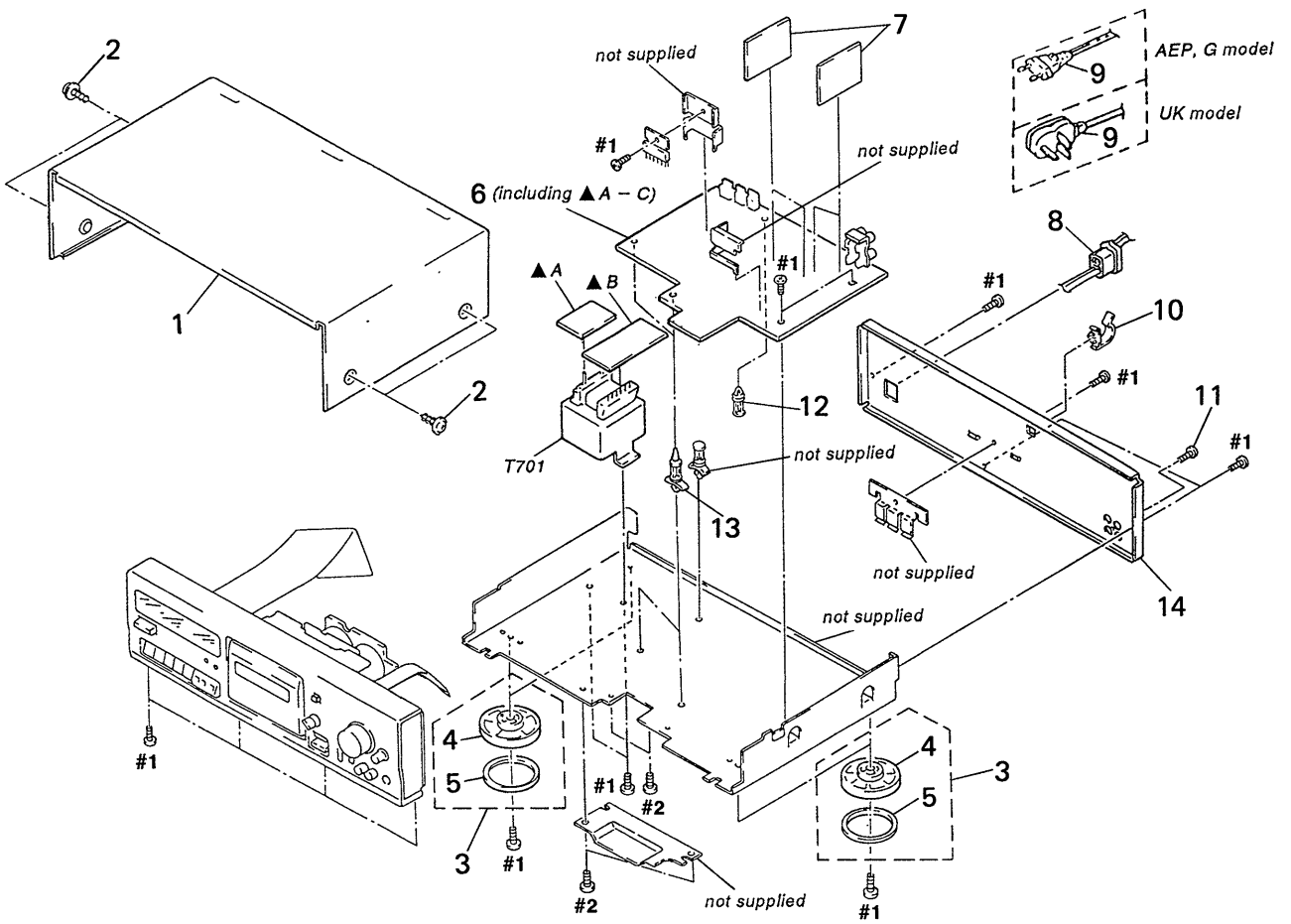
NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  G : German

6-1. CHASSIS SECTION

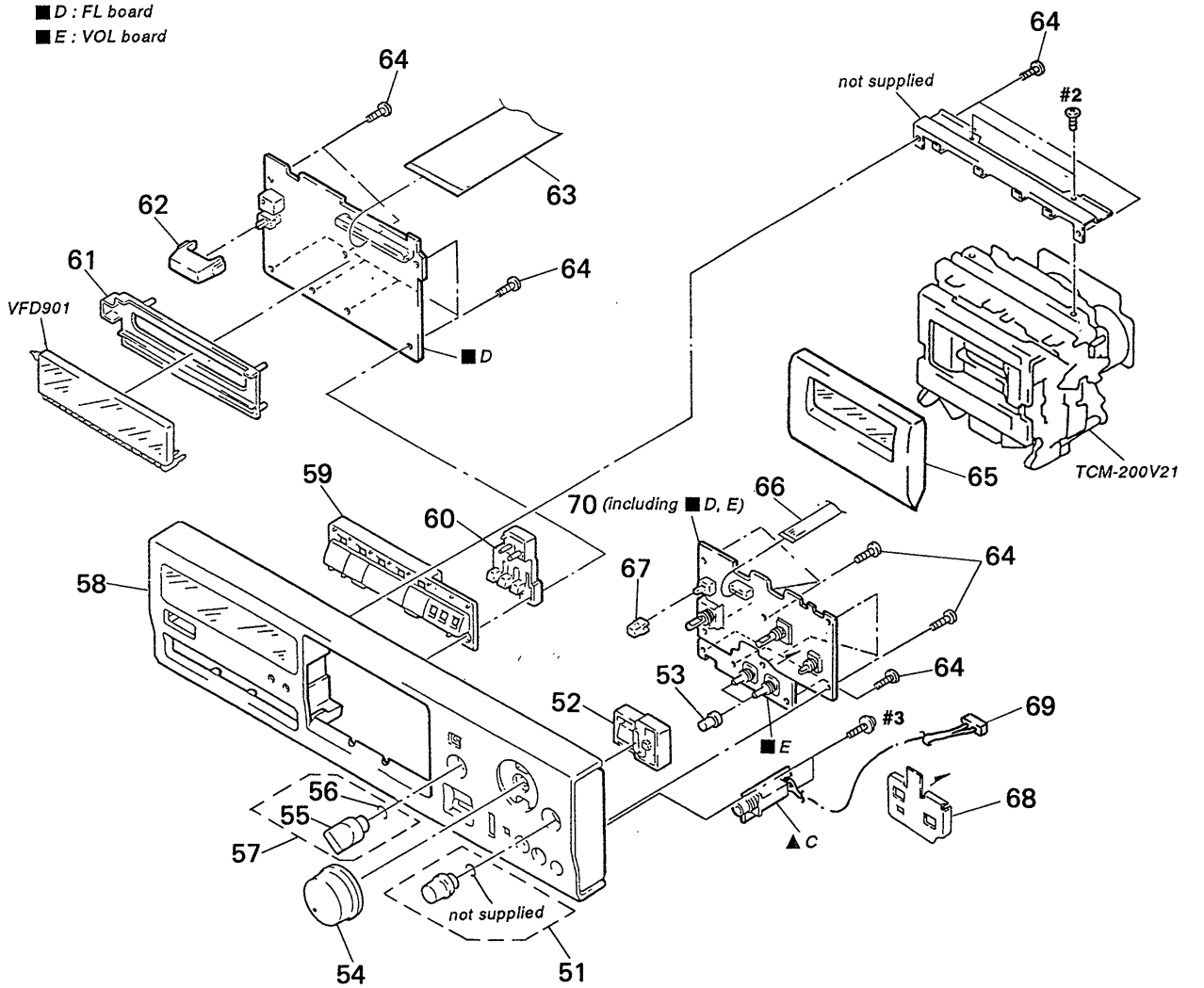
▲A :TRANS 1 board
▲B :TRANS 2 board



Ref. No.	Part No.	Description	Remark
* 1	4-943-088-41	CASE	
2	3-363-099-01	SCREW (CASE 3 TP2)	
3	X-4941-292-1	FOOT ASSY (F58175S)	
4	3-318-688-31	FOOT (F58175S)	
5	4-923-836-21	CUSHION	
* 6	A-2007-412-A	MAIN BOARD, COMPLETE	
* 7	A-2007-416-A	DOLBY (S) BOARD, COMPLE	
* 8	3-703-244-00	BUSHING (2104), CORD	
⚠9	1-575-651-21	CORD, POWER (AEP, G)	
⚠9	1-696-586-11	CORD, POWER (UK)	
* 10	4-949-235-01	HOOK (AEP, G)	
11	3-704-515-01	SCREW (BV/RING)	
* 12	3-669-610-00	SPACER	
* 13	3-346-265-31	HOLDER, PC BOARD	
* 14	3-920-034-01	PANEL, BACK (UK)	
* 14	3-920-034-11	PANEL, BACK (AEP, G)	
⚠T701	1-423-476-21	TRANSFORMER, POWER	

6-2. FRONT PANEL SECTION

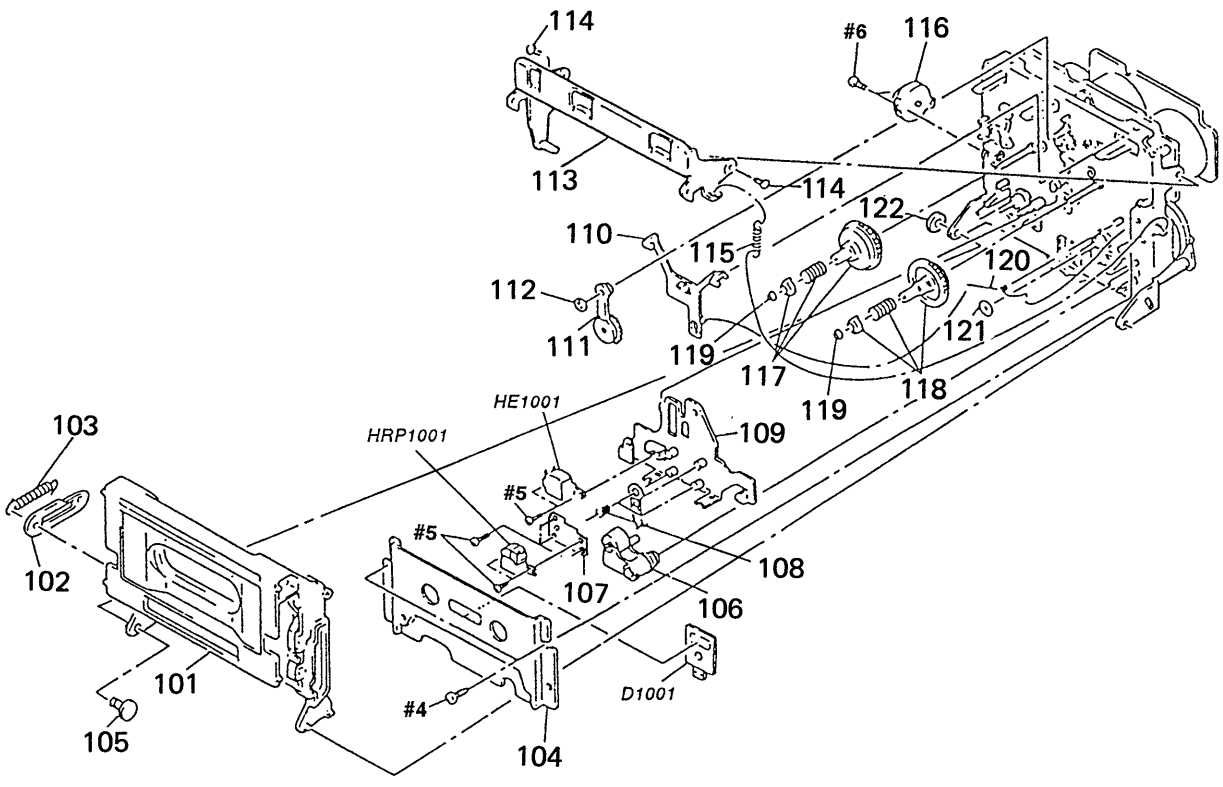
▲ C : HEADPHONE board
■ D : FL board
■ E : VOL board



Ref. No.	Part No.	Description	Remark
51	X-3368-033-1	KNOB (RB) ASSY	
52	3-923-322-01	BUTTON (EJEJCT)	
53	3-367-431-01	KNOB (BAL)	
54	3-389-516-01	KNOB (REC)	
55	4-908-097-21	KNOB	
56	3-350-440-11	SPRING, RING	
57	X-3368-032-1	KNOB ASSY	
58	X-3369-576-1	PANEL ASSY, FRONT	
59	3-386-247-11	BUTTON (FW)	
60	3-386-248-11	BUTTON (RE)	
* 61	3-386-245-11	HOLDER (FL)	

Ref. No.	Part No.	Description	Remark
62	3-354-932-01	BUTTON (POWER)	
63	1-769-406-11	WIRE (FLAT TYPE) (41 CORE)	
64	4-951-620-01	SCREW (2.6×8), +BVTP	
65	X-3369-577-1	LID ASSY, CASSETTE	
66	1-751-734-11	WIRE (FLAT TYPE) (5 CORE)	
67	3-380-952-21	BUTTON	
* 68	3-904-544-11	PLATE (VOL), SHIELD	
* 69	1-690-880-31	LEAD (WITH CONNECTOR)	
* 70	A-2007-411-A	PANEL BOARD, COMPLETE	
VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT	

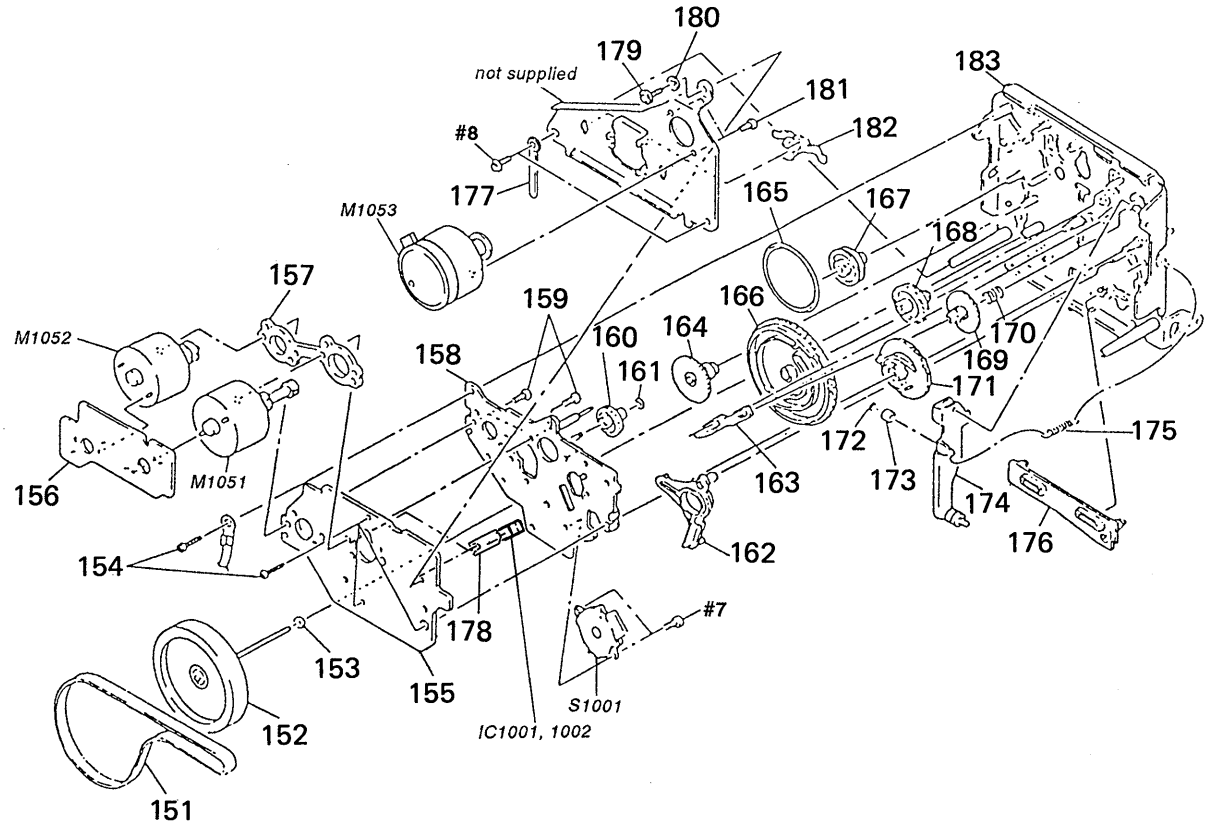
6-3. MECHANISM SECTION 1
(TCM-200V21)



Ref. No.	Part No.	Description	Remark
101	X-3365-299-1	HOLDER (CD-C) ASSY, CASSETTE	
* 102	3-356-717-01	LEVER (JOINT)	
103	3-356-626-01	SPRING, TENSION	
104	X-3356-613-1	PLATE ASSY, ORNAMENTAL	
105	3-378-341-01	SHAFT (L) (CASSETTE HOLDER)	
106	X-3356-649-1	LEVER (PINCH LEVER T) ASSY	
* 107	3-356-742-01	BRACKET (GUIDE R)	
108	3-356-659-01	SPRING (RPH), COMPRESSION	
109	X-3356-648-1	SLIDER (HEAD CHASSIS V2) ASSY	
110	3-356-614-01	SLIDER (BRAKE)	
111	X-3356-641-1	LEVER (FR2) ASSY	
112	3-669-465-11	WASHER (1.5), STOPPER	
* 113	X-3356-608-1	LEVER (LIFTER) ASSY	

Ref. No.	Part No.	Description	Remark
114	3-356-601-11	SCREW, STEP	
115	3-356-625-01	SPRING, TENSION	
116	3-712-786-01	DAMPER, OIL	
117	X-3356-628-1	GEAR (S) ASSY	
118	X-3356-627-1	GEAR (T) ASSY	
119	3-362-308-01	CAP (REEL)	
120	3-356-619-01	SPRING (B), TORSION	
121	3-356-713-01	WASHER	
122	3-558-708-21	WASHER, STOPPER	
D1001	8-719-980-85	LED SLF325C	
HE1001	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HRP1001	1-543-733-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	

6-4. MECHANISM SECTION 2
(TCM-200V21)



Ref. No.	Part No.	Description	Remark
151	3-356-744-01	BELT (CAPSTAN V)	
152	X-3356-642-1	FLYWHEEL (R FWD) ASSY	
153	3-356-705-01	WASHER (CAPSTAN)	
154	3-355-801-01	SCREW (BTP 2×18)	
* 155	1-632-740-11	MD BOARD	
* 156	1-632-741-21	REEL MOTOR BOARD	
* 157	3-356-628-01	SPACER (MOTOR)	
* 158	X-3356-602-1	BRACKET (MOTOR R) ASSY	
159	3-363-804-01	SCREW (+P 2.6×6.5)	
160	3-356-702-01	GEAR (COMMUNICATION B)	
161	3-669-465-01	WASHER (1.5), STOPPER	
162	3-356-613-01	LEVER (MODE)	
163	3-356-617-01	LEVER (SELECTION)	
164	3-356-606-01	GEAR (MODE)	
165	3-356-603-01	BELT (MODE)	
166	3-356-747-01	GEAR (MODE CAM C)	
167	3-356-607-01	PULLEY (MODE)	
168	3-356-703-01	GEAR (COMMUNICATION C)	
169	3-356-609-01	GEAR (LOADING)	
170	3-356-605-01	SPRING, COMPRESSION	

Ref. No.	Part No.	Description	Remark
171	3-356-616-01	GEAR (LOADING CAM)	
172	3-558-708-11	WASHER, STOPPER	
173	3-356-630-01	ROLLER (LOADING)	
* 174	X-3356-606-1	LEVER (LOADING) ASSY	
175	3-356-624-01	SPRING, TENSION	
176	3-356-653-01	SLIDER (PAUSE)	
177	3-703-397-01	STOPPER, WIRING	
178	3-356-631-01	HOLDER (SENSOR)	
179	3-356-707-01	SCREW (+PTPWH 2×25)	
* 180	3-356-718-01	SPACER (THRUST RETAINER R)	
181	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
182	3-575-321-00	RETAINER, THRUST, CAPSTAN	
183	X-3356-644-1	CHASSIS (V1) COMPLETE ASSY, MECH	
IC1001	8-749-920-97	DIODE GP2S22B	
IC1002	8-749-920-97	DIODE GP2S22B	
M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
M1053	X-3356-646-1	MOTOR (CAPSTAN V1) ASSY	
S1001	1-466-238-11	ENCODER, ROTARY	

SECTION 7
ELECTRICAL PARTS LIST

DOLBY (S)

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μA.... , uPA.... : μPA....
  uPB.... : μPB.... , uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  G : German

Ref. No.	Part No.	Description		Remark
*	A-2007-416-A	DOLBY (S) BOARD, COMPLETE **********		
		< CAPACITOR >		
C1	1-164-222-11	CERAMIC CHIP 0.22uF		25V
C2	1-135-177-21	TANTALUM CHIP 1uF	20%	20V
C3	1-104-558-11	FILM CHIP 0.039uF	5%	16V
C4	1-163-007-11	CERAMIC CHIP 680PF	10%	50V
C5	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V
C6	1-164-717-11	CERAMIC CHIP 0.0082uF	5%	50V
C7	1-164-222-11	CERAMIC CHIP 0.22uF		25V
C8	1-104-562-11	FILM CHIP 0.082uF	5%	16V
C9	1-104-553-11	FILM CHIP 0.015uF	5%	16V
C10	1-165-319-11	CERAMIC CHIP 0.1uF		50V
C11	1-135-145-11	TANTALUM CHIP 0.47uF	10%	35V
C12	1-164-222-11	CERAMIC CHIP 0.22uF		25V
C13	1-165-319-11	CERAMIC CHIP 0.1uF		50V
C14	1-162-568-11	CERAMIC CHIP 0.33uF	10%	16V
C15	1-104-562-11	FILM CHIP 0.082uF	5%	16V
C16	1-135-145-11	TANTALUM CHIP 0.47uF	10%	35V
C17	1-165-319-11	CERAMIC CHIP 0.1uF		50V
C18	1-164-222-11	CERAMIC CHIP 0.22uF		25V
C19	1-163-035-00	CERAMIC CHIP 0.047uF		50V
C20	1-104-553-11	FILM CHIP 0.015uF	5%	16V
C21	1-164-717-11	CERAMIC CHIP 0.0082uF	5%	50V
C22	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V
C23	1-164-161-11	CERAMIC CHIP 0.0022uF	10%	100V
C24	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C25	1-163-012-00	CERAMIC CHIP 0.0018uF	10%	50V
C26	1-104-558-11	FILM CHIP 0.039uF	5%	16V
C27	1-163-012-00	CERAMIC CHIP 0.0018uF	10%	50V
C28	1-163-012-00	CERAMIC CHIP 0.0018uF	10%	50V
C29	1-104-563-11	FILM CHIP 0.1uF	5%	16V
C30	1-135-145-11	TANTALUM CHIP 0.47uF	10%	35V
C31	1-104-555-11	FILM CHIP 0.022uF	5%	16V
C32	1-104-563-11	FILM CHIP 0.1uF	5%	16V
C33	1-163-024-00	CERAMIC CHIP 0.018uF	10%	50V
C34	1-104-563-11	FILM CHIP 0.1uF	5%	16V
C35	1-163-012-00	CERAMIC CHIP 0.0018uF	10%	50V
C36	1-165-319-11	CERAMIC CHIP 0.1uF		50V
C37	1-164-222-11	CERAMIC CHIP 0.22uF		25V
C38	1-163-024-00	CERAMIC CHIP 0.018uF	10%	50V
C39	1-104-555-11	FILM CHIP 0.022uF	5%	16V
C40	1-104-563-11	FILM CHIP 0.1uF	5%	16V
		< CONNECTOR >		
CN1	1-695-092-11	SOCKET, CONNECTOR 7P		
		< IC >		
IC1	8-752-056-51	IC CXA1417Q		
		< RESISTOR >		
R1	1-216-615-11	METAL CHIP 33	0.5%	1/10W
R2	1-208-806-11	METAL GLAZE 10K	2%	1/10W
R3	1-208-812-11	METAL GLAZE 18K	2%	1/10W
R4	1-216-119-00	METAL CHIP 820K	5%	1/10W
R5	1-208-799-11	METAL GLAZE 5.1K	2%	1/10W
R6	1-208-787-11	METAL GLAZE 1.6K	2%	1/10W
R7	1-216-657-11	METAL CHIP 1.8K	0.5%	1/10W
R8	1-216-667-11	METAL CHIP 4.7K	0.5%	1/10W
R9	1-208-791-11	METAL GLAZE 2.4K	2%	1/10W
R10	1-216-052-00	METAL CHIP 1.3K	5%	1/10W
R11	1-216-615-11	METAL CHIP 33	0.5%	1/10W
R12	1-216-619-11	METAL CHIP 47	0.5%	1/10W
R13	1-208-784-11	METAL GLAZE 1.2K	2%	1/10W
R14	1-216-667-11	METAL CHIP 4.7K	0.5%	1/10W
R15	1-208-791-11	METAL GLAZE 2.4K	2%	1/10W

Ref.No.	Part No.	Description			Remark
R16	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R17	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R18	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R19	1-208-787-11	METAL GLAZE	1.6K	2%	1/10W
R20	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
R21	1-216-119-00	METAL CHIP	820K	5%	1/10W
R22	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R23	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
R24	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R25	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R26	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R27	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
R28	1-216-695-11	METAL CHIP	68K	0.5%	1/10W
R29	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
R30	1-208-791-11	METAL GLAZE	2.4K	2%	1/10W
R31	1-208-811-11	METAL GLAZE	16K	2%	1/10W
R32	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R33	1-208-813-11	METAL GLAZE	20K	2%	1/10W
R34	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R35	1-208-817-11	METAL GLAZE	30K	2%	1/10W
R36	1-208-817-11	METAL GLAZE	30K	2%	1/10W
R37	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R38	1-208-819-11	METAL GLAZE	36K	2%	1/10W
R39	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
R40	1-208-817-11	METAL GLAZE	30K	2%	1/10W
R41	1-208-811-11	METAL GLAZE	16K	2%	1/10W
R42	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R43	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R44	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R45	1-216-689-11	METAL CHIP	39K	0.5%	1/10W

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* 1-632-740-11 MD BOARD
****

< CONNECTOR >

CN1001 1-506-615-11 PIN, CONNECTOR 9P
CN1002 1-564-501-11 PIN, CONNECTOR 8P

< IC >

IC1001 8-749-920-97 DIODE GP2S22B
IC1002 8-749-920-97 DIODE GP2S22B

< RESISTOR >

R1001	1-249-408-11	CARBON	180	5%	1/4W
R1002	1-249-408-11	CARBON	180	5%	1/4W

Ref.No.	Part No.	Description			Remark

< SWITCH >

S1002 1-570-953-11 SWITCH, PUSH (1 KEY) (DOOR)
S1003 1-571-958-11 SWITCH, PUSH (1 KEY) (CLOSE)
S1004 1-572-126-11 SWITCH, PUSH (1 KEY) (OPEN)
S1005 1-572-125-11 SWITCH, LEAF (ERASE PROOF)
S1006 1-572-202-11 SWITCH, LEAF (HALF)

S1007 1-572-125-11 SWITCH, LEAF (METAL)
S1008 1-572-125-11 SWITCH, LEAF (70μS)

< TERMINAL >

* TB1001 1-694-018-11 TERMINAL (5P)

****

* A-2007-412-A MAIN BOARD, COMPLETE
****

HEADPHONE BOARD
****
TRANS 1 BOARD
****
TRANS 2 BOARD
****

< CAPACITOR >

C101	1-126-963-11	ELECT	4.7uF	20%	50V
C102	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C104	1-124-907-11	ELECT	10uF	20%	50V
C105	1-136-165-00	FILM	0.1uF	5%	50V
C106	1-136-163-00	FILM	0.068uF	5%	50V
C107	1-124-907-11	ELECT	10uF	20%	50V
C110	1-136-175-00	FILM	0.68uF	5%	50V
C111	1-124-907-11	ELECT	10uF	20%	50V
C112	1-124-907-11	ELECT	10uF	20%	50V
C113	1-137-428-11	FILM	180PF	5%	50V
C114	1-107-597-11	CERAMIC	22PF	5%	500V
C115	1-102-980-00	CERAMIC	270PF	5%	50V
C116	1-137-434-11	FILM	0.0018uF	5%	50V
C117	1-136-157-00	FILM	0.022uF	5%	50V
C118	1-107-714-11	ELECT	10uF	20%	16V
C119	1-102-518-11	CERAMIC	33PF	5%	50V
C120	1-137-441-11	FILM	0.027uF	5%	50V
C121	1-124-925-11	ELECT	2.2uF	20%	100V
C122	1-136-153-00	FILM	0.01uF	5%	50V
C123	1-136-157-00	FILM	0.022uF	5%	50V
C124	1-136-161-00	FILM	0.047uF	5%	50V
C125	1-136-803-11	FILM	560PF	5%	630V
C126	1-137-431-11	FILM	560PF	5%	50V
C127	1-101-810-00	CERAMIC	100PF	5%	500V
C128	1-137-434-11	FILM	0.0018uF	5%	50V

Ref.No.	Part No.	Description			Remark
C130	1-137-366-11	FILM	0.0022uF	5%	50V
C131	1-124-907-11	ELECT	10uF	20%	50V
C132	1-136-165-00	FILM	0.1uF	5%	50V
C133	1-136-163-00	FILM	0.068uF	5%	50V
C136	1-124-907-11	ELECT	10uF	20%	50V
C137	1-124-916-11	ELECT	22uF	20%	63V
C138	1-124-907-11	ELECT	10uF	20%	50V
C140	1-124-916-11	ELECT	22uF	20%	63V
C141	1-124-907-11	ELECT	10uF	20%	50V
C201	1-126-963-11	ELECT	4.7uF	20%	50V
C202	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C204	1-124-907-11	ELECT	10uF	20%	50V
C205	1-136-165-00	FILM	0.1uF	5%	50V
C206	1-136-163-00	FILM	0.068uF	5%	50V
C207	1-124-907-11	ELECT	10uF	20%	50V
C210	1-136-175-00	FILM	0.68uF	5%	50V
C211	1-124-907-11	ELECT	10uF	20%	50V
C212	1-124-907-11	ELECT	10uF	20%	50V
C213	1-137-428-11	FILM	180PF	5%	50V
C214	1-107-597-11	CERAMIC	22PF	5%	500V
C215	1-102-980-00	CERAMIC	270PF	5%	50V
C216	1-137-434-11	FILM	0.0018uF	5%	50V
C217	1-136-157-00	FILM	0.022uF	5%	50V
C218	1-107-714-11	ELECT	10uF	20%	16V
C219	1-102-518-11	CERAMIC	33PF	5%	50V
C220	1-137-441-11	FILM	0.027uF	5%	50V
C221	1-124-925-11	ELECT	2.2uF	20%	100V
C222	1-136-153-00	FILM	0.01uF	5%	50V
C223	1-136-157-00	FILM	0.022uF	5%	50V
C224	1-136-161-00	FILM	0.047uF	5%	50V
C225	1-136-803-11	FILM	560PF	5%	630V
C226	1-137-431-11	FILM	560PF	5%	50V
C227	1-101-810-00	CERAMIC	100PF	5%	500V
C228	1-137-434-11	FILM	0.0018uF	5%	50V
C230	1-137-366-11	FILM	0.0022uF	5%	50V
C231	1-124-907-11	ELECT	10uF	20%	50V
C232	1-136-165-00	FILM	0.1uF	5%	50V
C233	1-136-163-00	FILM	0.068uF	5%	50V
C236	1-124-907-11	ELECT	10uF	20%	50V
C237	1-124-916-11	ELECT	22uF	20%	63V
C238	1-124-907-11	ELECT	10uF	20%	50V
C240	1-124-916-11	ELECT	22uF	20%	63V
C241	1-124-907-11	ELECT	10uF	20%	50V
C301	1-124-907-11	ELECT	10uF	20%	50V
C302	1-124-907-11	ELECT	10uF	20%	50V
C303	1-137-436-11	FILM	0.0039uF	5%	50V
C304	1-124-907-11	ELECT	10uF	20%	50V
C305	1-136-164-00	FILM	0.082uF	5%	50V
C306	1-124-903-11	ELECT	1uF	20%	50V
C307	1-124-443-00	ELECT	100uF	20%	10V
C308	1-124-443-00	ELECT	100uF	20%	10V
C309	1-162-217-31	CERAMIC	56PF	5%	50V
C310	1-161-494-00	CERAMIC	0.022uF		25V
C311	1-124-925-11	ELECT	2.2uF	20%	100V
C312	1-162-217-31	CERAMIC	56PF	5%	50V
C313	1-124-925-11	ELECT	2.2uF	20%	100V
C314	1-124-907-11	ELECT	10uF	20%	50V
C315	1-124-907-11	ELECT	10uF	20%	50V
C316	1-124-902-00	ELECT	0.47uF	20%	50V
C317	1-161-494-00	CERAMIC	0.022uF		25V
C319	1-124-907-11	ELECT	10uF	20%	50V
C320	1-126-967-11	ELECT	47uF	20%	35V
C321	1-126-967-11	ELECT	47uF	20%	35V
C322	1-106-349-00	MYLAR	0.0018uF	5%	100V
C323	1-106-349-00	MYLAR	0.0018uF	5%	100V
C324	1-106-359-00	MYLAR	4700PF	5%	200V
C325	1-124-916-11	ELECT	22uF	20%	63V
C326	1-136-558-11	FILM	0.0039uF	5%	630V
C327	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C329	1-161-494-00	CERAMIC	0.022uF		25V
C330	1-124-907-11	ELECT	10uF	20%	50V
C331	1-124-907-11	ELECT	10uF	20%	50V
C332	1-124-925-11	ELECT	2.2uF	20%	100V
C333	1-124-907-11	ELECT	10uF	20%	50V
C334	1-124-907-11	ELECT	10uF	20%	50V
C703	1-126-768-11	ELECT	2200uF	20%	16V
C704	1-126-936-11	ELECT	3300uF	20%	16V
C706	1-124-477-11	ELECT	47uF	20%	25V
C708	1-124-473-11	ELECT	1000uF	20%	10V
C709	1-124-473-11	ELECT	1000uF	20%	10V
C710	1-124-907-11	ELECT	10uF	20%	50V
C711	1-126-937-11	ELECT	4700uF	20%	16V
C713	1-124-907-11	ELECT	10uF	20%	50V
C714	1-126-927-11	ELECT	2200uF	20%	10V
C715	1-124-564-11	ELECT	4700uF	20%	25V
C716	1-124-907-11	ELECT	10uF	20%	50V
C717	1-126-768-11	ELECT	2200uF	20%	16V
C718	1-124-122-11	ELECT	100uF	20%	50V
C719	1-126-967-11	ELECT	47uF	20%	35V
C720	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-124-443-00	ELECT	100uF	20%	10V
C802	1-104-666-11	ELECT	220uF	20%	10V
C803	1-164-159-11	CERAMIC	0.1uF		50V
C804	1-164-159-11	CERAMIC	0.1uF		50V
C805	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C806	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C808	1-126-962-11	ELECT	3.3uF	20%	50V

MAIN **HEADPHONE** **TRANS 1** **TRANS 2**

Ref.No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNP301	1-564-337-00	PIN, CONNECTOR 3P	
* CNP302	1-560-062-00	PIN, CONNECTOR 4P	
* CNP303	1-560-060-00	PIN, CONNECTOR 2P	
* CNP304	1-560-062-00	PIN, CONNECTOR 4P	
* CNP305	1-691-462-11	PIN, CONNECTOR (PC BOARD) 6P	
* CNP306	1-564-508-11	PLUG, CONNECTOR 5P	
* CNP307	1-568-824-11	SOCKET, CONNECTOR 5P	
* CNP701	1-564-525-11	PLUG, CONNECTOR 10P	
* CNP702	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P	
CNP803	1-770-246-11	SOCKET, CONNECTOR 41P	
CP101	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CP102	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CP201	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CP202	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
		< COMPOSITION CIRCUIT BLOCK >	
CP801	1-233-199-11	COMPOSITION CIRCUIT BLOCK	
		< DIODE >	
D101	8-719-987-63	DIODE 1N4148M	
D102	8-719-987-63	DIODE 1N4148M	
D201	8-719-987-63	DIODE 1N4148M	
D202	8-719-987-63	DIODE 1N4148M	
D301	8-719-024-99	DIODE 11ES2-NTA2B	
D302	8-719-024-99	DIODE 11ES2-NTA2B	
D303	8-719-024-99	DIODE 11ES2-NTA2B	
D304	8-719-024-99	DIODE 11ES2-NTA2B	
D305	8-719-987-63	DIODE 1N4148M	
D306	8-719-987-63	DIODE 1N4148M	
D307	8-719-987-63	DIODE 1N4148M	
D308	8-719-987-63	DIODE 1N4148M	
D309	8-719-987-63	DIODE 1N4148M	
D310	8-719-987-63	DIODE 1N4148M	
D311	8-719-987-63	DIODE 1N4148M	
D312	8-719-987-63	DIODE 1N4148M	
D313	8-719-987-63	DIODE 1N4148M	
D701	8-719-024-99	DIODE 11ES2-NTA2B	
D702	8-719-024-99	DIODE 11ES2-NTA2B	
D703	8-719-024-99	DIODE 11ES2-NTA2B	
D704	8-719-024-99	DIODE 11ES2-NTA2B	
D705	8-719-933-33	DIODE HZS6A1L	
D706	8-719-933-33	DIODE HZS6A1L	
D707	8-719-987-63	DIODE 1N4148M	
D712	8-719-987-63	DIODE 1N4148M	
D713	8-719-200-31	DIODE 21DQ05	
D714	8-719-000-78	DIODE UZL-7L2	
D715	8-719-987-63	DIODE 1N4148M	
D716	8-719-987-63	DIODE 1N4148M	
D717	8-719-001-70	DIODE UZL-12M1	
D718	8-719-024-99	DIODE 11ES2-NTA2B	
D719	8-719-987-63	DIODE 1N4148M	
D720	8-719-000-93	DIODE UZL-7H1	
D722	8-719-987-63	DIODE 1N4148M	
D723	8-719-025-03	DIODE RBA-402-SL	
D724	8-719-987-63	DIODE 1N4148M	
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-933-33	DIODE HZS6A1L	
D803	8-719-933-33	DIODE HZS6A1L	
D805	8-719-987-63	DIODE 1N4148M	
D807	8-719-987-63	DIODE 1N4148M	
D808	8-719-987-63	DIODE 1N4148M	
D809	8-719-987-63	DIODE 1N4148M	
D810	8-719-987-63	DIODE 1N4148M	
D811	8-719-987-63	DIODE 1N4148M	
D812	8-719-987-63	DIODE 1N4148M	
D814	8-719-987-63	DIODE 1N4148M	
D815	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC301	8-759-111-44	IC uPC4570C-1	
IC302	8-752-066-35	IC CXA1563S	
IC303	8-752-060-64	IC CXA1198AP	
IC304	8-759-106-56	IC uPC1297CA	
IC305	8-759-634-51	IC M5218AP	
IC306	8-759-634-51	IC M5218AP	
IC307	8-752-066-35	IC CXA1563S	
IC308	8-759-634-50	IC M5218AL	
IC309	8-759-634-50	IC M5218AL	
IC310	8-759-000-49	IC MC14066BCP	
IC311	8-759-634-51	IC M5218AP	
IC701	8-759-145-58	IC uPC4558C	
IC801	8-759-337-28	IC uPD78042AGF-050-3B9	
IC802	8-759-165-82	IC PST600E-T	
IC803	8-759-973-95	IC BA6219B	
IC804	8-759-822-09	IC LB1641	
		< JACK >	
J301	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
J302	1-568-519-41	JACK, LARGE TYPE (PHONES)	
		< COIL >	
L101	1-410-780-11	INDUCTOR 27mH	
L121	1-410-778-11	INDUCTOR 18mH	
L201	1-410-780-11	INDUCTOR 27mH	
L221	1-410-778-11	INDUCTOR 18mH	

Ref. No.	Part No.	Description	Remark
		< LINE FILTER >	
⚠LF701	1-424-485-11	FILTER, LINE	
		< FILTER >	
LPF101	1-235-175-11	FILTER, LOW PASS	
LPF201	1-235-175-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q101	8-729-900-74	TRANSISTOR DTC143TS	
Q102	8-729-900-80	TRANSISTOR DTC114ES	
Q103	8-729-922-37	TRANSISTOR 2SD2144S	
Q104	8-729-922-37	TRANSISTOR 2SD2144S	
Q105	8-729-900-80	TRANSISTOR DTC114ES	
Q201	8-729-900-74	TRANSISTOR DTC143TS	
Q202	8-729-900-80	TRANSISTOR DTC114ES	
Q203	8-729-922-37	TRANSISTOR 2SD2144S	
Q204	8-729-922-37	TRANSISTOR 2SD2144S	
Q205	8-729-900-80	TRANSISTOR DTC114ES	
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q302	8-729-900-80	TRANSISTOR DTC114ES	
Q303	8-729-900-80	TRANSISTOR DTC114ES	
Q304	8-729-900-80	TRANSISTOR DTC114ES	
Q305	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q306	8-729-900-89	TRANSISTOR DTC144ES	
Q307	8-729-900-80	TRANSISTOR DTC114ES	
Q308	8-729-900-80	TRANSISTOR DTC114ES	
Q309	8-729-900-80	TRANSISTOR DTC114ES	
Q310	8-729-194-57	TRANSISTOR 2SC945-P	
Q311	8-729-194-57	TRANSISTOR 2SC945-P	
Q312	8-729-922-37	TRANSISTOR 2SD2144S	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q314	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q315	8-729-900-80	TRANSISTOR DTC114ES	
Q316	8-729-900-74	TRANSISTOR DTC143TS	
Q701	8-729-900-61	TRANSISTOR DTA114ES	
Q702	8-729-900-80	TRANSISTOR DTC114ES	
Q703	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q704	8-729-209-15	TRANSISTOR 2SD2012	
Q705	8-729-209-15	TRANSISTOR 2SD2012	
Q706	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q707	8-729-900-80	TRANSISTOR DTC114ES	
Q708	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q709	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q710	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q711	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q801	8-729-900-80	TRANSISTOR DTC114ES	
Q802	8-729-900-89	TRANSISTOR DTC144ES	
Q803	8-729-801-84	TRANSISTOR 2SB1013-4	
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q807	8-729-142-36	TRANSISTOR BN1L3Z	
Q808	8-729-900-61	TRANSISTOR DTA114ES	
Q809	8-729-900-61	TRANSISTOR DTA114ES	
Q810	8-729-900-80	TRANSISTOR DTC114ES	
Q811	8-729-900-89	TRANSISTOR DTC144ES	
Q812	8-729-900-89	TRANSISTOR DTC144ES	
Q813	8-729-900-89	TRANSISTOR DTC144ES	
Q814	8-729-900-89	TRANSISTOR DTC144ES	
Q815	8-729-900-89	TRANSISTOR DTC144ES	
Q816	8-729-900-65	TRANSISTOR DTA144ES	
		< RESISTOR >	
R101	1-249-433-11	CARBON 22K 5% 1/4W	
R102	1-249-417-11	CARBON 1K 5% 1/4W	
R103	1-249-423-11	CARBON 3.3K 5% 1/4W	
R104	1-249-428-11	CARBON 8.2K 5% 1/4W	
R105	1-249-441-11	CARBON 100K 5% 1/4W	
R107	1-249-421-11	CARBON 2.2K 5% 1/4W	
R108	1-247-860-11	CARBON 16K 5% 1/4W	
R109	1-249-421-11	CARBON 2.2K 5% 1/4W	
R110	1-249-417-11	CARBON 1K 5% 1/4W	
R112	1-249-423-11	CARBON 3.3K 5% 1/4W	
R113	1-249-424-11	CARBON 3.9K 5% 1/4W	
R114	1-249-429-11	CARBON 10K 5% 1/4W	
R115	1-249-421-11	CARBON 2.2K 5% 1/4W	
R116	1-249-425-11	CARBON 4.7K 5% 1/4W	
R117	1-249-441-11	CARBON 100K 5% 1/4W	
R118	1-249-403-11	CARBON 68 5% 1/4W	
R119	1-247-882-11	CARBON 130K 5% 1/4W	
R120	1-249-426-11	CARBON 5.6K 5% 1/4W	
R121	1-249-421-11	CARBON 2.2K 5% 1/4W	
R122	1-249-420-11	CARBON 1.8K 5% 1/4W	
R123	1-247-838-00	CARBON 2K 5% 1/4W	
R124	1-249-441-11	CARBON 100K 5% 1/4W	
R125	1-249-421-11	CARBON 2.2K 5% 1/4W	
R126	1-249-425-11	CARBON 4.7K 5% 1/4W	
R127	1-249-435-11	CARBON 33K 5% 1/4W	
⚠R128	1-219-153-11	FUSIBLE 10 5% 1/4W	F
R129	1-247-883-00	CARBON 150K 5% 1/4W	
R130	1-249-434-11	CARBON 27K 5% 1/4W	
R131	1-247-874-11	CARBON 62K 5% 1/4W	
R133	1-249-410-11	CARBON 270 5% 1/4W	
R137	1-249-441-11	CARBON 100K 5% 1/4W	
R138	1-249-441-11	CARBON 100K 5% 1/4W	
R139	1-247-864-11	CARBON 24K 5% 1/4W	
R140	1-249-429-11	CARBON 10K 5% 1/4W	
R141	1-249-419-11	CARBON 1.5K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN **HEADPHONE** **TRANS 1** **TRANS 2**

Ref. No.	Part No.	Description				Remark
R142	1-249-421-11	CARBON	2.2K	5%	1/4W	
R143	1-247-844-11	CARBON	3.6K	5%	1/4W	
R144	1-249-409-11	CARBON	220	5%	1/4W	
R145	1-249-426-11	CARBON	5.6K	5%	1/4W	
R152	1-247-887-00	CARBON	220K	5%	1/4W	
R201	1-249-433-11	CARBON	22K	5%	1/4W	
R202	1-249-417-11	CARBON	1K	5%	1/4W	
R203	1-249-423-11	CARBON	3.3K	5%	1/4W	
R204	1-249-428-11	CARBON	8.2K	5%	1/4W	
R205	1-249-441-11	CARBON	100K	5%	1/4W	
R207	1-249-421-11	CARBON	2.2K	5%	1/4W	
R208	1-247-860-11	CARBON	16K	5%	1/4W	
R209	1-249-421-11	CARBON	2.2K	5%	1/4W	
R210	1-249-417-11	CARBON	1K	5%	1/4W	
R212	1-249-423-11	CARBON	3.3K	5%	1/4W	
R213	1-249-424-11	CARBON	3.9K	5%	1/4W	
R214	1-249-429-11	CARBON	10K	5%	1/4W	
R215	1-249-421-11	CARBON	2.2K	5%	1/4W	
R216	1-249-425-11	CARBON	4.7K	5%	1/4W	
R217	1-249-441-11	CARBON	100K	5%	1/4W	
R218	1-249-403-11	CARBON	68	5%	1/4W	
R219	1-247-882-11	CARBON	130K	5%	1/4W	
R220	1-249-426-11	CARBON	5.6K	5%	1/4W	
R221	1-249-421-11	CARBON	2.2K	5%	1/4W	
R222	1-249-420-11	CARBON	1.8K	5%	1/4W	
R223	1-247-838-00	CARBON	2K	5%	1/4W	
R224	1-249-441-11	CARBON	100K	5%	1/4W	
R225	1-249-421-11	CARBON	2.2K	5%	1/4W	
R226	1-249-425-11	CARBON	4.7K	5%	1/4W	
R227	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R228	1-219-153-11	FUSIBLE	10	5%	1/4W	F
R229	1-247-883-00	CARBON	150K	5%	1/4W	
R230	1-249-434-11	CARBON	27K	5%	1/4W	
R231	1-247-874-11	CARBON	62K	5%	1/4W	
R233	1-249-410-11	CARBON	270	5%	1/4W	
R237	1-249-441-11	CARBON	100K	5%	1/4W	
R238	1-249-441-11	CARBON	100K	5%	1/4W	
R239	1-247-864-11	CARBON	24K	5%	1/4W	
R240	1-249-429-11	CARBON	10K	5%	1/4W	
R241	1-249-419-11	CARBON	1.5K	5%	1/4W	
R242	1-249-421-11	CARBON	2.2K	5%	1/4W	
R243	1-247-844-11	CARBON	3.6K	5%	1/4W	
R244	1-249-409-11	CARBON	220	5%	1/4W	
R245	1-249-426-11	CARBON	5.6K	5%	1/4W	
R252	1-247-887-00	CARBON	220K	5%	1/4W	
R302	1-247-848-11	CARBON	5.1K	5%	1/4W	
R303	1-249-421-11	CARBON	2.2K	5%	1/4W	
R304	1-249-421-11	CARBON	2.2K	5%	1/4W	
R305	1-215-452-00	METAL	20K	1%	1/4W	

Ref. No.	Part No.	Description				Remark
R306	1-249-436-11	CARBON	39K	5%	1/4W	
R307	1-249-433-11	CARBON	22K	5%	1/4W	
R308	1-249-441-11	CARBON	100K	5%	1/4W	
R309	1-247-864-11	CARBON	24K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-441-11	CARBON	100K	5%	1/4W	
R312	1-249-433-11	CARBON	22K	5%	1/4W	
R313	1-247-878-00	CARBON	91K	5%	1/4W	
R314	1-249-439-11	CARBON	68K	5%	1/4W	
R315	1-247-870-11	CARBON	43K	5%	1/4W	
R316	1-249-435-11	CARBON	33K	5%	1/4W	
R317	1-247-876-11	CARBON	75K	5%	1/4W	
R318	1-247-887-00	CARBON	220K	5%	1/4W	
R319	1-247-878-00	CARBON	91K	5%	1/4W	
R320	1-247-874-11	CARBON	62K	5%	1/4W	
R321	1-247-878-00	CARBON	91K	5%	1/4W	
R322	1-249-437-11	CARBON	47K	5%	1/4W	
R323	1-249-439-11	CARBON	68K	5%	1/4W	
R324	1-247-886-11	CARBON	200K	5%	1/4W	
R325	1-247-874-11	CARBON	62K	5%	1/4W	
R326	1-247-874-11	CARBON	62K	5%	1/4W	
R327	1-249-435-11	CARBON	33K	5%	1/4W	
R328	1-249-438-11	CARBON	56K	5%	1/4W	
R329	1-249-440-11	CARBON	82K	5%	1/4W	
R330	1-247-836-11	CARBON	1.6K	5%	1/4W	
R331	1-249-429-11	CARBON	10K	5%	1/4W	
R332	1-249-422-11	CARBON	2.7K	5%	1/4W	
R333	1-249-417-11	CARBON	1K	5%	1/4W	
R334	1-249-417-11	CARBON	1K	5%	1/4W	
R335	1-247-822-11	CARBON	430	5%	1/4W	
R336	1-249-417-11	CARBON	1K	5%	1/4W	
R337	1-249-429-11	CARBON	10K	5%	1/4W	
R338	1-249-421-11	CARBON	2.2K	5%	1/4W	
R339	1-249-440-11	CARBON	82K	5%	1/4W	
R340	1-249-440-11	CARBON	82K	5%	1/4W	
R341	1-249-390-11	CARBON	5.6	5%	1/4W	
R342	1-249-390-11	CARBON	5.6	5%	1/4W	
R343	1-249-437-11	CARBON	47K	5%	1/4W	
R344	1-249-429-11	CARBON	10K	5%	1/4W	
R345	1-249-441-11	CARBON	100K	5%	1/4W	
R346	1-249-441-11	CARBON	100K	5%	1/4W	
R347	1-249-429-11	CARBON	10K	5%	1/4W	
R348	1-249-428-11	CARBON	8.2K	5%	1/4W	
R349	1-249-441-11	CARBON	100K	5%	1/4W	
R350	1-249-441-11	CARBON	100K	5%	1/4W	
R351	1-249-423-11	CARBON	3.3K	5%	1/4W	
R352	1-249-429-11	CARBON	10K	5%	1/4W	
R353	1-249-429-11	CARBON	10K	5%	1/4W	
R354	1-249-417-11	CARBON	1K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description				Remark
R355	1-249-430-11	CARBON	12K	5%	1/4W	
R356	1-249-435-11	CARBON	33K	5%	1/4W	
R357	1-247-848-11	CARBON	5.1K	5%	1/4W	
R358	1-249-437-11	CARBON	47K	5%	1/4W	
R359	1-249-434-11	CARBON	27K	5%	1/4W	
R360	1-249-437-11	CARBON	47K	5%	1/4W	
R361	1-249-429-11	CARBON	10K	5%	1/4W	
R363	1-215-452-00	METAL	20K	1%	1/4W	
R365	1-249-433-11	CARBON	22K	5%	1/4W	
R366	1-247-862-11	CARBON	20K	5%	1/4W	
R367	1-249-429-11	CARBON	10K	5%	1/4W	
R368	1-249-429-11	CARBON	10K	5%	1/4W	
R369	1-249-429-11	CARBON	10K	5%	1/4W	
R370	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-425-11	CARBON	4.7K	5%	1/4W	
R703	1-249-420-11	CARBON	1.8K	5%	1/4W	
R704	1-249-412-11	CARBON	390	5%	1/4W	
R705	1-249-427-11	CARBON	6.8K	5%	1/4W	
R706	1-249-419-11	CARBON	1.5K	5%	1/4W	
R707	1-249-429-11	CARBON	10K	5%	1/4W	
R708	1-249-419-11	CARBON	1.5K	5%	1/4W	
R709	1-249-425-11	CARBON	4.7K	5%	1/4W	
R711	1-249-417-11	CARBON	1K	5%	1/4W	
R712	1-249-427-11	CARBON	6.8K	5%	1/4W	
R713	1-249-427-11	CARBON	6.8K	5%	1/4W	
R714	1-249-417-11	CARBON	1K	5%	1/4W	
R715	1-249-425-11	CARBON	4.7K	5%	1/4W	
R716	1-249-425-11	CARBON	4.7K	5%	1/4W	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	
R718	1-249-433-11	CARBON	22K	5%	1/4W	
R719	1-249-436-11	CARBON	39K	5%	1/4W	
R720	1-247-854-11	CARBON	9.1K	5%	1/4W	
R721	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R725	1-219-135-11	FUSIBLE	0.15	10%	1/4W	F
⚠R726	1-219-137-11	FUSIBLE	0.33	10%	1/4W	F
R801	1-249-435-11	CARBON	33K	5%	1/4W	
R802	1-249-422-11	CARBON	2.7K	5%	1/4W	
R803	1-249-422-11	CARBON	2.7K	5%	1/4W	
R804	1-249-429-11	CARBON	10K	5%	1/4W	
R805	1-249-429-11	CARBON	10K	5%	1/4W	
R806	1-249-417-11	CARBON	1K	5%	1/4W	
R807	1-247-852-11	CARBON	7.5K	5%	1/4W	
R808	1-249-427-11	CARBON	6.8K	5%	1/4W	
R810	1-249-429-11	CARBON	10K	5%	1/4W	
R811	1-249-429-11	CARBON	10K	5%	1/4W	
R812	1-249-429-11	CARBON	10K	5%	1/4W	
R813	1-249-436-11	CARBON	39K	5%	1/4W	
R814	1-249-436-11	CARBON	39K	5%	1/4W	
R815	1-249-435-11	CARBON	33K	5%	1/4W	
R817	1-249-441-11	CARBON	100K	5%	1/4W	
R818	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R820	1-212-954-11	FUSIBLE	6.8	5%	1/2W	F
R821	1-249-429-11	CARBON	10K	5%	1/4W	
R822	1-249-429-11	CARBON	10K	5%	1/4W	
R823	1-249-421-11	CARBON	2.2K	5%	1/4W	
R824	1-249-426-11	CARBON	5.6K	5%	1/4W	
R825	1-247-848-11	CARBON	5.1K	5%	1/4W	
R826	1-249-429-11	CARBON	10K	5%	1/4W	
R827	1-247-807-31	CARBON	100	5%	1/4W	
⚠R828	1-212-952-00	FUSIBLE	5.6	5%	1/2W	F
R829	1-249-429-11	CARBON	10K	5%	1/4W	
R830	1-249-429-11	CARBON	10K	5%	1/4W	

< VARIABLE RESISTOR >

RV101	1-241-765-11	RES, ADJ, CARBON	22K	(REC LEVEL, L)
RV102	1-238-019-11	RES, ADJ, CARBON	47K	(REC EQ IV, L)
RV103	1-241-765-11	RES, ADJ, CARBON	22K	(REC BIAS, L)
RV121	1-241-763-11	RES, ADJ, CARBON	4.7K	(PB LEVEL, L)
RV201	1-241-765-11	RES, ADJ, CARBON	22K	(REC LEVEL R)
RV202	1-238-019-11	RES, ADJ, CARBON	47K	(REC EQ IV, R)
RV203	1-241-765-11	RES, ADJ, CARBON	22K	(REC BIAS, R)
RV221	1-241-763-11	RES, ADJ, CARBON	4.7K	(PB LEVEL, R)
RV306	1-223-387-21	RES, ADJ, CARBON	330K	(REC EQ IV)

< TRANSFORMER >

T101	1-433-344-11	TRANSFORMER, BIAS OSCILLATION
T201	1-433-344-11	TRANSFORMER, BIAS OSCILLATION
T301	1-423-614-11	TRANSFORMER, BIAS OSCILLATION

< TEST PIN >

* TP301	1-564-506-11	PLUG, CONNECTOR 3P
* TP801	1-560-060-00	PIN, CONNECTOR 2P
* TP802	1-564-506-11	PLUG, CONNECTOR 3P

< VIBRATOR >

X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)

****

*	1-632-741-21	REEL MOTOR BOARD

****

< CAPACITOR >

C1051	1-124-907-11	ELECT	10uF	20% 50V
C1052	1-124-907-11	ELECT	10uF	20% 50V
C1053	1-164-159-11	CERAMIC	0.1uF	50V

< CONNECTOR >

* CN1051	1-568-945-11	PIN, CONNECTOR 7P

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

REEL MOTOR | PANEL | FL | VOL

Ref.No.	Part No.	Description	Remark
* CN1052	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
* CN1053	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< RESISTOR >	
R1051	1-247-825-31	CARBON 560 5% 1/4W	
**********			
*	A-2007-411-A	PANEL BOARD, COMPLETE	
		**********	
		FL BOARD	
		********	
		VOL BOARD	
		*********	
		< CONNECTOR >	
CNP903	1-770-246-11	SOCKET, CONNECTOR 41P	
* CNP907	1-568-824-11	SOCKET, CONNECTOR 5P	
		< DIODE >	
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC901	8-741-810-59	IC SBX1810-59	
		< RESISTOR >	
R153	1-249-425-11	CARBON 4.7K 5% 1/4W	
R253	1-249-425-11	CARBON 4.7K 5% 1/4W	
R362	1-249-429-11	CARBON 10K 5% 1/4W	
R901	1-247-838-00	CARBON 2K 5% 1/4W	
R902	1-249-422-11	CARBON 2.7K 5% 1/4W	
R903	1-247-848-11	CARBON 5.1K 5% 1/4W	
R904	1-249-429-11	CARBON 10K 5% 1/4W	
R905	1-247-866-11	CARBON 30K 5% 1/4W	
R906	1-249-422-11	CARBON 2.7K 5% 1/4W	
R907	1-247-848-11	CARBON 5.1K 5% 1/4W	
R908	1-249-429-11	CARBON 10K 5% 1/4W	
R909	1-247-866-11	CARBON 30K 5% 1/4W	
R910	1-247-836-11	CARBON 1.6K 5% 1/4W	
R911	1-249-421-11	CARBON 2.2K 5% 1/4W	
R912	1-247-844-11	CARBON 3.6K 5% 1/4W	
R913	1-249-426-11	CARBON 5.6K 5% 1/4W	
R914	1-249-430-11	CARBON 12K 5% 1/4W	
R915	1-249-441-11	CARBON 100K 5% 1/4W	
R916	1-247-838-00	CARBON 2K 5% 1/4W	
R917	1-247-868-11	CARBON 36K 5% 1/4W	

Ref.No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV301	1-241-820-11	RES, VAR, CARBON 50K/50K	(REC LEVEL)
RV302	1-241-897-11	RES, VAR, CARBON 50K/50K	(BLANCE)
RV303	1-241-896-11	RES, VAR, CARBON 10K	(BIAS)
RV304	1-223-366-11	RES, VAR, CARBON 5K/5K	(REC LEVEL)
		< SWITCH >	
S901	1-554-303-21	SWITCH, TACTILE (▷)	
S902	1-554-303-21	SWITCH, TACTILE (❚❚)	
S903	1-554-303-21	SWITCH, TACTILE (RESET)	
S904	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S905	1-554-303-21	SWITCH, TACTILE (MONITOR)	
S906	1-554-303-21	SWITCH, TACTILE (■)	
S907	1-554-303-21	SWITCH, TACTILE (◀◀)	
S908	1-554-303-21	SWITCH, TACTILE (▶▶)	
S909	1-554-303-21	SWITCH, TACTILE (●)	
S910	1-554-303-21	SWITCH, TACTILE (○)	
S911	1-554-303-21	SWITCH, TACTILE (CALIBRATION)	
S912	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)	
S921	1-692-409-11	SWITCH, PUSH (1 KEY) (POWER)	
S922	1-554-118-00	SWITCH, PUSH (1 KEY) (MPX FILTER)	
S923	1-692-410-11	SWITCH, ROTARY (DOLBY NR)	
		< INDICATOR TUBE >	
VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT	
**********			
		MISCELLANEOUS	
		**********	
⚠9	1-575-651-21	CORD, POWER (AEP, G)	
⚠9	1-696-586-11	CORD, POWER (UK)	
63	1-769-406-11	WIRE (FLAT TYPE) (41 CORE)	
66	1-751-734-11	WIRE (FLAT TYPE) (5 CORE)	
69	1-690-880-31	LEAD (WITH CONNECTOR)	
D1001	8-719-980-85	LED SLF325C	
HE1001	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HRP1001	1-543-733-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
M1053	X-3356-646-1	MOTOR (CAPSTAN V1) ASSY	
S1001	1-466-238-11	ENCODER, ROTARY	
⚠T701	1-423-476-21	TRANSFORMER, POWER	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		********	
	1-551-734-11	CORD, CONNECTION	
	3-798-458-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (AEP)	
	3-798-458-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	
	3-798-458-51	MANUAL, INSTRUCTION (GERMAN) (G)	
	3-798-458-61	MANUAL, INSTRUCTION (ENGLISH) (UK)	
*	3-907-887-01	CUSHION	
*	3-923-808-22	INDIVIDUAL CARTON	

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HARDWARE LIST
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#1	7-685-871-01	SCREW +BVTT 3×6 (S)
#2	7-682-547-09	SCREW +BVTT 3×6 (S)
#3	7-685-134-19	SCREW (+PTPWH) (2.6×8)
#4	7-685-533-19	SCREW +BTP 2.6×6 TYPE2 N-S
#5	7-621-772-20	SCREW +B 2×5
#6	7-621-255-20	SCREW +BVTT 2×4 (S)
#7	7-621-255-35	SCREW +BVTT 2×5 (S)
#8	7-685-132-19	SCREW +BTP 2.6×5 TYPE2 N-S

9-960-275-11

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